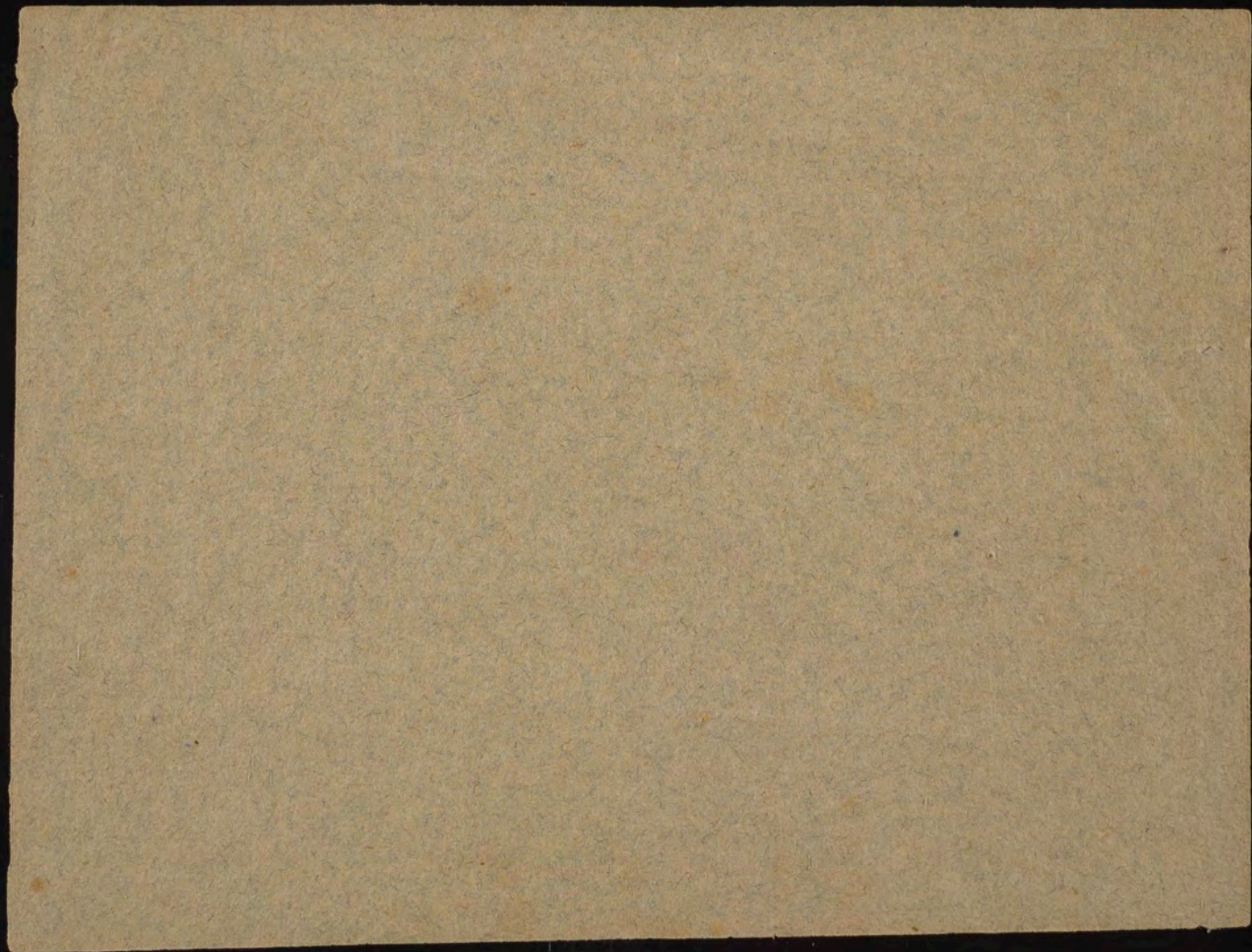


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Dr B. Rush's Manuscript
work on Hygiene —

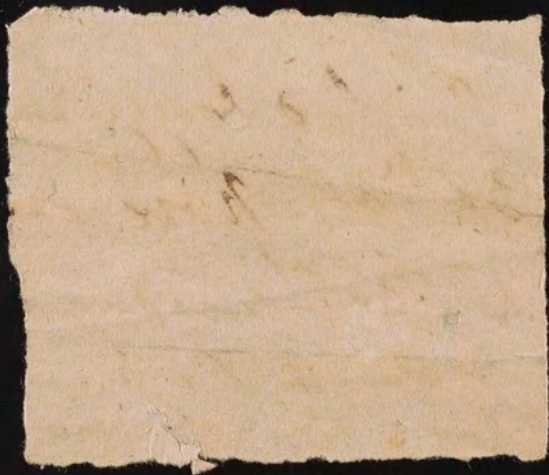
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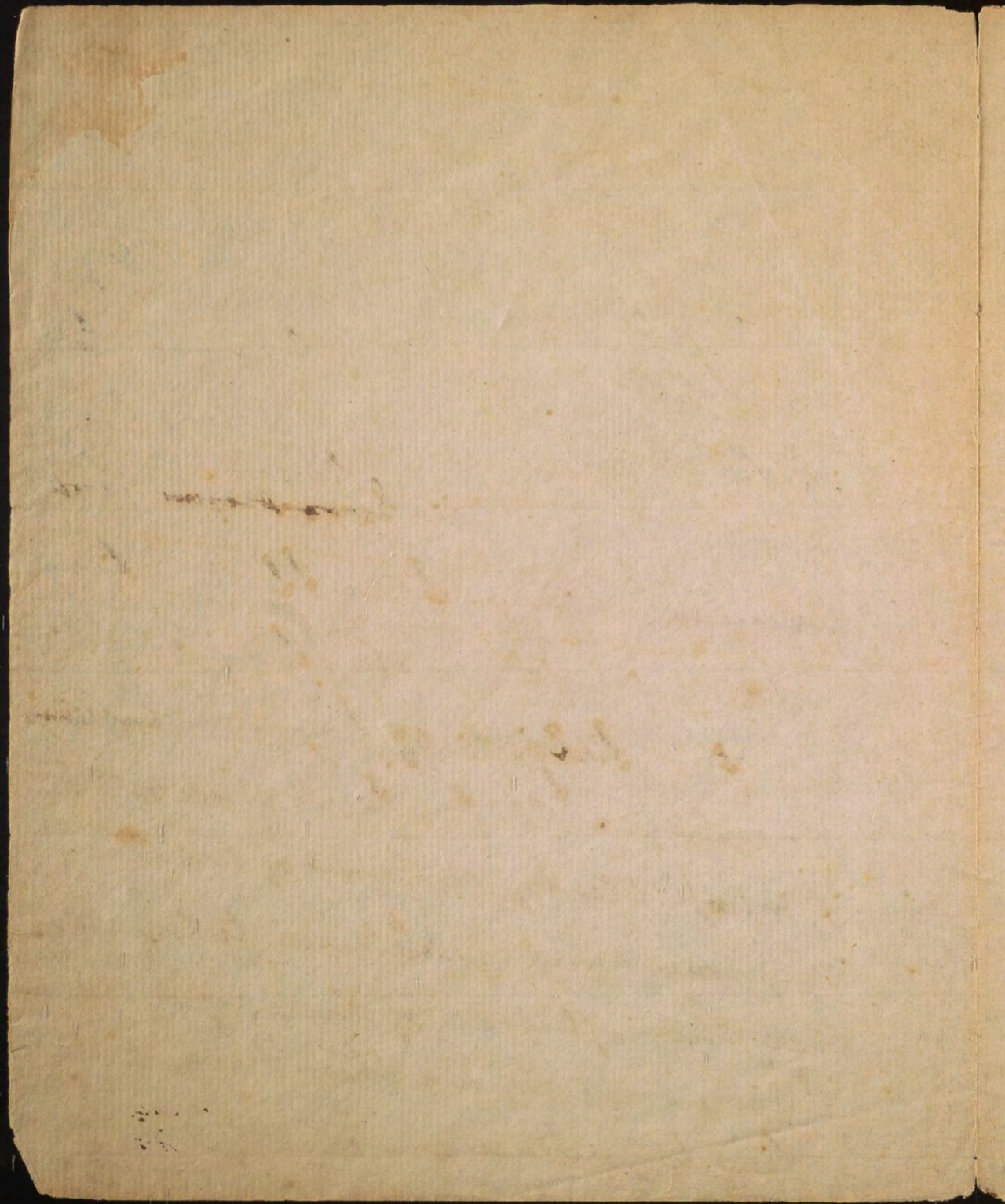
Finished Dyzine
30th of Nov 12

1873. Tuesday

gave 4 lectures
on it stop at House.



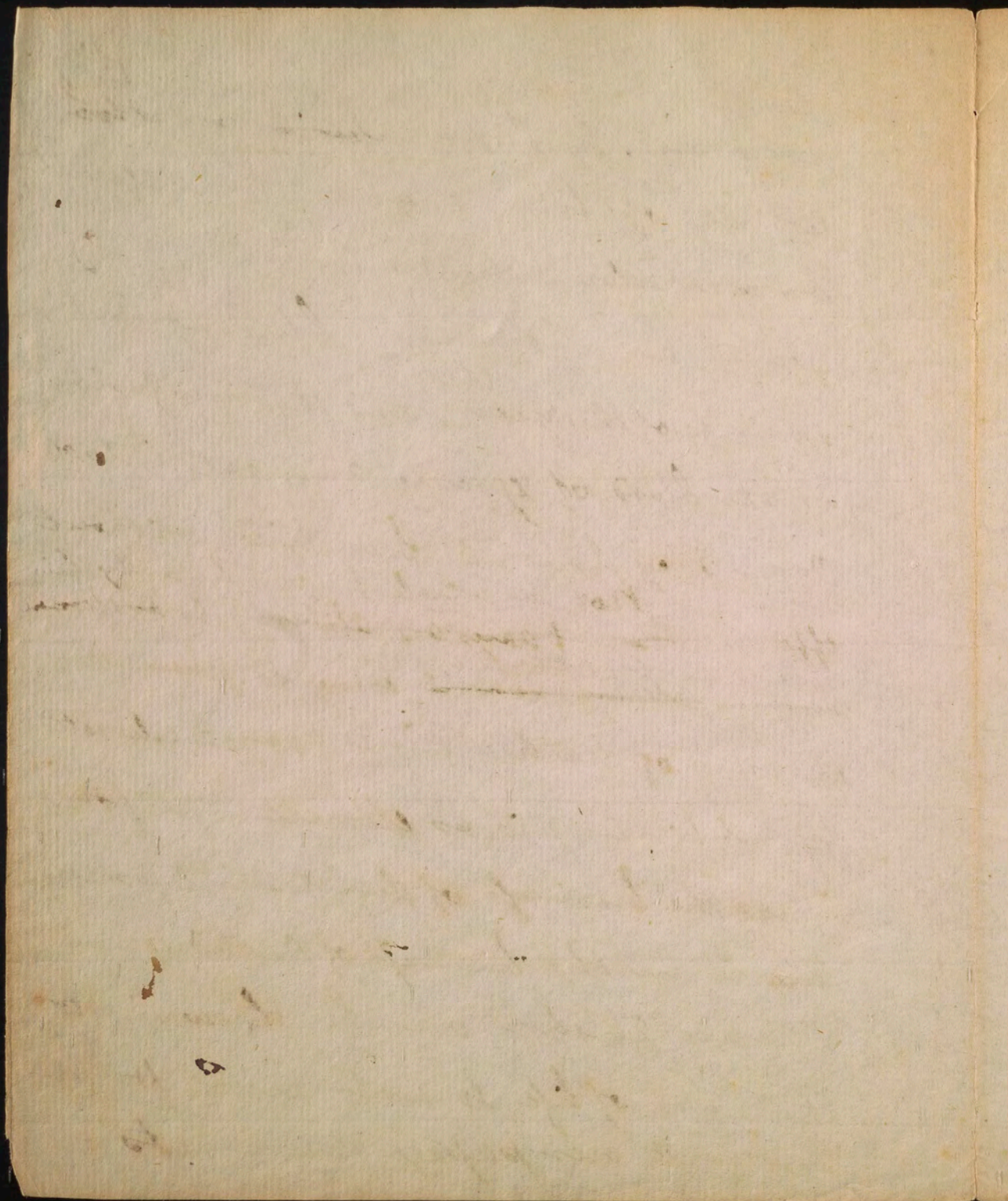
1
Much has been written upon the
means of preserving ^{health} and prolonging
life in all Ages and Countries. ^{Many} the
poets have added their labors to those
of the physicians and philosophers
upon this subject. ^{known and enthus-} ~~known and enthus-~~
^{-iasm} ~~upon the subject~~ have blended them-
selves with it, as they have done with
all other subjects of human ~~improvement~~
knowledge. It has been supposed that
it is possible by means of certain
improvements in science, to counter-
^{to} ~~act~~ the influence of time upon our
bodies, or to repair their decay, and
thus to produce an earthly immor-
-tality.



will be unnecessary to contradict,
~~It would be a waste of time to~~
~~much effort to spread a movement this~~
error. "Dust thou, and unto dust shalt
thou return" is the universal & imperi-
-al sentence inflicted upon man &
from which there is no reprieve.
With ^{some} less violence to reason & revelation,
~~It has been supposed that~~ ^{it has} been supposed that
it is possible ~~by the same improvement~~
~~in science to~~ by certain medicines,
or modes of living, to protract life to
the Antediluvian age. Paracelsus
a noted German Chemist ^{lignor} was the
author of this opinion. The Elixir
proprietatis derives its name from its
being supposed to possess this power. Many
remedies equally absurd have
been recommended for the ^{purpose of} ~~same~~

[Faint, illegible handwriting on aged paper, possibly bleed-through from the reverse side. The text is mostly mirrored and difficult to decipher.]

protracting the ordinary limits of human life,
~~obtaining~~ ^{a diet consisting} ~~prospers~~, such as ~~bleeding~~ ^{in the}
 wholly of fruits, and other vegetables,
~~or of milk~~, - the exclusive use of
 water as a drink, - bleeding in the
 spring of the year, and the transfusion
 of the blood of young animals into old
 ones. They have all been tried without
 effect. ^{Not a single subject has, by their}
~~Time (says Dr. Gilbert) is~~ ^{means nor by other, any other} ~~is~~ ^{escaped from the}
~~any other means~~ ^{empire of death.} "Time (says a celebrated
 french writer) is as eternal in perfor-
 -ming the business of destruction, as he-
 -lax is in the business of creation; nor
 can an anchor ever be thrown into
 the river of life so as to arrest for a
 moment our passage down its



overflowing stream". The common
extent of the ~~duration of the~~ human
life ^{is} from twenty to an hundred years.
Very few attain to the former of those
periods. One half who are born, die
under puberty, and according to some
calculations before the 8th year of life. This
premature mortality of the human race,
does not appear to be fixed by an irre-
versible degree of heaven. It ~~has been~~ ^{has been}
~~be prevented to a certain degree in many~~
countries, ^{to a} ~~and it may be prevented to a~~
certain degree, ~~in all countries~~ by the
combined ^{operations} ~~influence~~ of ~~our~~ physical
and moral influence upon the body
and mind, and where ^{this} ~~they~~ ~~have~~ failed of
producing the wished for result, it must

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 15 horizontal lines.]

be ascribed to the neglect of all those ^{Diet} relative circumstances which influence [^]
 Climate, ^{Sex,} Race, - Age, - Occupation, and
 the different States of Society. But the
~~benefits of the Science of health,~~ ^{does} ~~do not~~
 extend barely to the prolongation of
 life. ^{It is} ~~They are~~ intended ^{not only to} to prevent those
 painful ^{or} ~~and~~ distressing chronic diseases
 which render life ^a ~~unpleasant~~ ^{chronic death, but,}
 to ^{make it} ~~be~~ ^{more} comfortable & pleasant
 while we do live. ^{It}
~~= knowledge and happiness.~~ ^{It} ~~They~~ consists in
 the knowledge and application of certain
 rules for with respect to Aliments, Drinks,
 Air, Dress, exercise, the faculties of the
 mind, and the exertions of the body; ^{and}
~~no taking care to diversify~~ ^{in diversifying} them according
 to the relative circumstances which

✓ Begin with air - first stimulus
Sight of man. some remarks
on animal ^{life}, and of health depend-
-ing on a due quantity of exercises.

have been just now mentioned. In
doing so ^{I shall} ~~the author will~~ endeavour never
to forget that ^{I am} ~~he is~~, writing chiefly for
the benefit of the ~~citizens~~ ^{inhabitants}
of the United States. V. Air first

I shall begin ^{by examining some} with the history of
general remarks upon ^{and upon the}
aliments and drinks, ^{and upon the}
times and manner of taking them, ^{and}
~~affect health and life~~ and afterwards proceed
to take notice of certain properties of
such of them as are in common
use in our country.

I shall begin ~~with~~ by making
some remarks upon ^{the} ~~the~~ Aliments
& Drinks, ~~into~~ & I shall confine
myself chiefly to those in Use
in our Country. This part of
our Subject will consist chiefly
of facts; and ~~will contain but~~
~~little of that reasoning which~~
~~is so agreeable in will afford~~
~~you but if~~ will I fear be
considered as ^{more} ~~less~~ proper for a
kitchen than a room in a
University - but yet: the
Subject is highly important.
Now 1st Aliments & Drinks ~~are~~
~~be~~ from their Qualities or Quantities

are the Causes of many, very
many diseases. & our principal,
our most durable, & our most
~~valuable~~ agreeable remedies are taken

from Aliments & Drinks. ^{What I}
It is certainly necessary for a Physician
Aliments and Drinks are the
to be acquainted with this composition
principal subjects of Conversation
of ~~as of the~~ ^{as of the} ~~audience~~ that are present in
at ~~most~~ ^{most} ~~of~~ ^{of} ~~your~~ ^{your} ~~will~~ ^{will} ~~have~~ ^{have}
an ~~apothecary~~ ^{apothecary} ~~shop~~ ^{shop}. But ^{3rd}
a better lot in life than ~~most~~ ^{most}
Physicians have
~~had~~ ^{had} if you ~~pass~~ ^{pass} this life ~~too~~ ^{too}.

without sitting down at every
table in which Extrinse
Drinks, or what is called good
eating & drinking" will not consti-
-tute the principal subject of
Conversation. ^{now} without some
Knowledge of this subject you
~~will~~ ^{will} ~~not~~ ^{not} ~~sit~~ ^{sit} ~~in~~ ⁱⁿ ~~silence~~ ^{silence}, ~~and~~ ^{and}

= be expected ^{of being} ~~from~~ your ignorant
of ~~many~~ other things supposed
to be more useful in your
profession.

✓ It is certainly as necessary
for a physician to be acquainted
with their Composition, as with
the Composition and Doses of
the Articles of Medicine that
are prepared in an Apothecaries
Shop. The most skillful, the
most popular & the most successful
physicians in all Countries
have been those who have been
most attentive to the Diet &
Drinks of their Patients. ~~This~~
~~Dr. Sydenham was his for~~
~~this~~.

Before I proceed to mention the different
 kinds of ~~Alia~~ articles which constitute
 the food and drinks of man, it will be
^{proper} ~~necessary~~ to take notice of an opinion
 of some modern philosophers who have
 taken great pains to describe the gradual
 manner in which man discovered
 under the influence of his reason, ^{only}
 accident, the Aliments which were
 proper for his Support. They tell us he
 first fed upon the spontaneous berries
 and fruits of the earth, then upon roots
 accidentally discovered by openings in the
 earth, and lastly upon grains discovered
 in like manner by accident. They tell
 us further that he acquired his first ^{knowledge}
 wish for animal food from a priest

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burning his fingers in turning a piece of
flesh while it was offering up as a
sacrifice upon an Altar, & then thrusting
his fingers into his mouth in order to
ease the pain of the burn. These opinions
are as ~~altogether~~ ^{absurd &} hypothetical, ^{as that} ~~as those~~
~~which supposes that man appeared~~
~~after which a new class in Adam's~~
~~with the opinion of man having ad-~~
by gradual and accidental means, from a
Savage, to a civilized state. The course of
what has been taught in ~~both cases~~ is
appears to be alike true ^{in both cases.} & man was
created a civilized being, and the first
Communities of men were all civilized.
They ~~became~~ gradually become Savage from
the loss of Religion and letters. This ^{transi-} ~~transi-~~tion
from the civilized, to the Savage state, is

a note

+ The Indians in this country are of this
Opinion, and hence it is a common saying
among them, that "white men sooner
become red men, that is Indians, than red
men become white!"

V the habits of civilized life, that he
subs upon the berries, fruits, and
• roots which spontaneously spring
up upon the earth.

easy, and common, and hence the
 early existence and immense number
 of savage nations in every part of the
 world. In like manner ~~all~~ the diff-
^{erent} ~~substances~~ ^{various} ~~kinds of aliments~~ ^{which}
~~constitute the which man~~ ^{feed}
 fed in civilized life, ~~were~~ appear to have
 been ~~possessed~~ formed the ^{first} Aliment of the
^{father} ~~first~~ ^{passage} of the human race. They
 were I believe pointed out to ~~him~~ ^{him} by
 the ~~means of~~ revelation, without ~~the~~
~~knowledge of them communicated in the~~
 which he would probably have perished
 by famine, or destroyed himself by
 unwholesome, or poisonous products of
 the earth. It is in his ^{departure} ~~only~~ ^{from} ~~the~~
~~It appears probable~~ But

V It is no Objection to this Opinion
that some of the most important dis-
coveries in this Science, have been made
by accident, and not by the reasoning
~~where improvements in this~~

Science have ~~not~~ been derived from
accidents instead of the exercise of
~~the reasoning faculties of man, they~~
faculties of man; for what is
accident as applied to the subject before us,
~~is not this kind of accident, but~~
a Subordinate species of Revelation? A

+ See and insert from verse 24 to
29 of the 28 Chapter of Isaiah.

A We all admit a knowledge of the existence &
perfection, of the Deity to be from Revelation. It
is I believe equally true that all the elements
or first principles of all our agricultural;
mechanical & domestic knowledge, as also all our
forms of civil government were from the
same source. ^{As with the first was taught by his}
maker to make the first hint of Charles he
was made.

It is highly probable,
~~Indians~~ further ^{that} the manner of
preparing his Aliment by means ^{of fire} to
as to make it more pleasant & nutritious
was communicated by revelations and
that without it, he and his posterity
would have been as deficient in the
knowledge of Cookery as the brute creation. ‡

It is not unparry to suppose that
he was instructed in all the details of this
useful art. As the knowledge of the four
& twenty letters of the Alphabet ~~as~~ which
~~was~~ it has enabled men to compose
words and languages, so a knowledge of
a few primary articles of
the elements of the Aliment and of the
manner of preparing ^{them} has ^{led} to ^{extend}
~~the~~ ~~hundreds of discoveries upon~~ his many
additions and
hundreds of discoveries upon this subject. V

~~V~~
~~Habit~~

Man is the Creature of habit with respect
 to his food, as much as he ^{is} ~~is to~~ ~~be~~ ~~in~~
 to climate. As he was intended to live
 in every part of the globe, he is happily
 accommodated by the nature of his
 Appetite and ^{complexion} ~~disposition~~ to live upon
 Aliment varied ^{by} ~~in its~~ ~~nature~~ origin,
 preparation and mixture into an
 immense Variety of ways. Hence ^{he} ~~while~~
 has been called an omnivorous Animal,
 to distinguish him from those Animals,
 that live exclusively ~~or~~ ^{or} chiefly upon
 flesh, grass ^{or} ~~and~~ grain. There is no
^{vegetable} food of any beast, or bird but what
 he has eaten, ~~and~~ ^{such as are} ~~even~~ ~~preferred~~
~~rejected~~ by other Animals, have been

V prepared by him as articles of
nourishment.

VI hence there scarcely ^{exists} a ~~beast~~ quadruped,
a bird, fish, ~~insect~~ insect,
worm or serpent that has not
furnished not only food, but a
luxury in some ~~age~~ or country
or age of the world.

6.2
✓

The flesh of the horse, the ass - the dog, and
~~many whole raw flesh and fish, the~~
~~blood~~ the blood of the goat have all con-
-posed a part of the food of all many
different nations. Part of those articles
of food have been afforded him not only
as nourishment, but as feast in their
better state. Of this there are some
remarkable instances mentioned in the
transactions of the transactions of the
Society of Philadelphians which flourished
some years ago at [disposition] The
same Versatility of Appetite and Dis-
-position to habit, appear in the family
with which ~~one species~~ ^{he} accommodates ^{his taste}
to different kinds of ^{animal} ~~vegetable~~ food. ^{of}
this, history and travels furnish us

V pleasure and nourishment to the
the appetite and body of man when
taken without the least mixture
of any other article of diet.

with many remarkable instances. ^{influence of habit upon the} While
But it belongs to the ^{appetite of man to} ~~be gratified exclusively by~~ ^{and constitution of man to desire}
impart pleasure and health from ^{a Diet} ~~not only~~

~~not only~~ ^{or animal, many} ~~exclusively animal~~
~~or vegetable~~ ^{but from} ~~the~~ ^{single}

Articles in those Kingdoms of nature.

^{of the former,} ~~this has been~~ ^{these have been} travellers

tell us ~~the flesh of the horse, the~~ ^{fish, - the flesh of the deer or}

^{Rice - beans} ~~buffaloes~~ ^{dates - gum arabic, and even}
~~flesh of~~ ^{and of the latter, fish, &}

^{conveniences; during a} ~~certain time~~

^{the flesh of the horse, the ap, the deer and}

^{of the} ~~buffaloes~~ ^{have} ^{all} ~~afforded~~ ^{not only}

However powerfully habit may act
in those cases in perverting the original
instincts of nature, and substituting an
artificial appetite in their room, there
can be ^{no} doubt but ^{that} ~~that man was~~

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~~intended to live and upon some aliments~~
~~are more calculated to afford pleasure &~~
~~health to man than others, and that~~
man
~~was~~ ^{is} intended to live upon a mixture
of ~~the~~ Vegetables and Animals ~~and~~ food,
and that certain articles of both were
selected in a more peculiar manner
for his use, as being more easily
obtained, and more calculated to afford
~~pleasure~~ him pleasure & health than
Others. —

That man was designed to live
upon ^{a mixture of} Vegetables and Animal food is
obvious, from ^{his} instinctive relish for them.
2 from the structure of his teeth, and of
his alimentary canal, both of which
are formed upon the compound prin-
-ciples of granivorous & Carnivorous

§ V From the greater health, strength
and longevity of individuals, ^{and nations} who live
upon a mixture of Vegetable and
Animal food.

4

One of the ^{of} the final causes probably was,
had man lived on vegetables
only, it would have acquired
~~more~~ a greater quantity
& longer time to fill his belly
than it was compatible

With his Duties in life. ^{It was} ~~Sup~~
appetite for flesh rearing the further enjoyment of
~~the~~ lifting the number of Animals. -

+ This is the case with all herbivorous
animals -

well as by the
~~the old and new testament and by the~~
examples of ~~the~~ all the wise and good
men whose lives ~~and~~ are recorded
in ~~these~~ the old & new testaments. ✓

Let it not be supposed there is any
cruelty in ~~these~~ the Governor of the
world in permitting the life of one
animal to be supported by the death
of another. The command to "slay &
eat" like every other ^{Divine} command is the
effect of overflowing goodness, for by
the ~~death~~ constant destruction of every
animal that supplies us with ^{many} food,
room is given for the existence of
more ~~who~~ ^{that} come forward & partake of
the blessing of life. It is by this means
that the various species of animals have
been preserved alive to this day, for had

not their increase been ^{limited} ~~before~~ by their
 partial Destruction, they must all have
 perished in consequence of the present
~~imperfect cultivation~~ ^{to scanty productions} of the earth, from
 the want of Subsistence long ago. If all
 the Domestic Animals alone which
 have existed within the last hundred
 years are taken into Consideration, the
 number of them almost exceeds cal-
 culation, and yet no one of these would
 ever have seen the sun, or partaken of
 those animal pleasures which they
 probably enjoy in a much higher
 degree than the human species, ^{and} ~~and~~
 which constitute with them a degree of
 happiness proportioned to the absence of
 other pleasures. Unless the Ancestors of

V ^{its nature,} Stranger to ~~the nature~~ its fear
D and Consequences, and of course
to its fear; ~~an~~

those animals have had composed a
part of the food of man. But further,
the destruction of animals by the knife,
or in any other way, prevents death from
disease, it likewise prevents their
suffering the miseries of old
age, for in that ^{feeble and} helpless stage of life,
they can have no ^{aid} help, nor support
like the ~~creature~~ ^{human} ~~species~~ ^{species}
from affectionate and interested rela-
tives and friends. From this ^{ignorance} ~~inability~~
however, they are ~~strangers to the fear~~
~~of death~~, they are ~~probably ignorant~~
of its nature, hence the ^{aged} ~~have~~ ~~been~~ ^{from}
this ~~inability~~ to draw inferences from
the death of other animals so as to apply
it to themselves, ^{they are probably ignorant of its nature} ~~hence the have which~~
is exposed ^{to} ~~more~~ frequently to death from
the number of its enemies in the

V It is from this ~~want~~ ^{means or instinct} of inability to remember the ~~circumstances~~ ^{which} produce of death in ~~other~~ ^{other} animals, ~~that they~~ ^{do not} ~~pass~~ ^{out of the world} that they ~~do not~~ destroy themselves. Under all their complicated sufferings from the neglect and cruelty of man, they never resort to suicide for deliverance from them, ~~to the crime~~ ^{of suicide}.

VI That we seldom tread upon the earth after a shower of rain, or inhale the air, or swallow certain liquids without destroying the lives of many of them, ~~to all of~~ ^{to all of} whom ~~life is~~ ^{life is} as precious and as full of more fully of enjoyment than the ~~least suffer~~ ^{as much suffering} ~~as much in dying~~ ^{as the} domestic animals that are the objects of our misplaced compassion.

most playful of all animals. The
 lamb too from the same cause is
 " — pleased to the last, ^{he} ^{his} ^{food,} ^{cropping}
 " and licks the hand just raised to shed ^{his} ^{blood.} Even while animals are dying,
 it is probable they are not conscious
 that their ~~prison~~ loss of blood is a
 previous step to the loss of their existence.
 They in most cases I believe ^{death} ^{it} ^{creeps}
 upon them with the gentleness, and
 perhaps with the pleasant sensations
 of sleep. —
 were it necessary to ^{oppose any more} ~~urge further~~ arguments
 to the mass, and excite sensibility of mind
 which object to taking away the life of ~~an~~
 innocent animals in order to gratify the appe-
 tite, and nourish our bodies, it might be
 added that we live unparily in a constant state
 of war with thousands of animals, and a

V This Stimulus acts by its weight, ^{or} by distending
the stomach, ~~and~~ or by its ~~an~~ ^{an} active or
pungent quality inherent in it in which case it
~~to~~ ² by the facility, or difficulty with
which they are digested, and the prompt
or gradual manner in which they
yield their nourishing matter to the
body. It is,

~~It is~~ not necessary for Aliments to
digest speedily in order to support ~~the~~
strength and life. On the contrary there
are cases to be mentioned hereafter in
which Aliments should be prepared from
~~the slow~~ ^{their} difficulty of digestion, and
the slow manner in which they pass
out of the stomach.

11 Sugar occupies the first grade in this
scale of nourishing matter - vit the next,
and mucilage the lowest. Aliments =

support animal life

Aliments of all kinds ~~set in three ways~~
 in the following ^{1 Directly by} ~~by the~~ ~~in the~~ Ways. ~~For~~ their Stimulus
 independantly of their nourishing Qualities,
 imparted to the whole system through the
 medium of ~~the organ of taste & the stomach.~~
~~2 Indirectly by~~
~~the quantity of nourishment they~~
~~contain, and by the greater or less facility~~
~~with which this nourishment is extracted~~
~~from Aliment and by the powers of the~~
~~Stomach, and converted into animal matter.~~
 All ~~all~~ Aliments ^{denial their} ~~of~~ ^{qualities} nourishing ^{in proper}
^{from their containing more or less of the substances}
~~to the quantity of the following~~
~~substances contained in them, and in the order in~~
~~which they are mentioned.~~ Sugar, oil
 & gelatin, ^{gluten - starch - gum - and} ~~the albumen~~ ^{the} mucilage. ~~They~~
 are said to contain in addition to those
 substances calcareous earth & ~~some~~ carbon
 each of which it is said contributes in

~~V Scale of combining matter & oil the~~
~~rest~~

V They contain likewise and an alka-
-line & muriatic salts - a principle of
rancidity and putrefaction and a quantity
of air, ~~what~~ [from which]

in certain degree to form their nourishing
qualities. [✓] ~~that the order of in which they~~
~~ought to be placed is not known.~~

~~It will be impossible to classify them~~
The ~~by their~~ stimulating - nourishing, ~~to~~ di-
^{indigestible} ~~gestible~~ qualities of Aliments
or so much influenced by their mode
of preparation, or by ~~the~~ age, and ^{the} state
of the stomach of the persons who feed
upon them, that it will be impossible
to class them, in giving a history of their
relative fitness for the support of animal
life. - ~~The~~ ^{the} ~~food~~ Aliments which act by
their ~~character~~ ^{the} ~~impacts~~ I shall therefore
occasionally mention all, or a part of their
qualities, ^{by the terms that have been mentioned,} and apply them to circumstances,
to the ^{and} ages and ~~habits~~ constitutions of differ-
ent classes of people. -

✓ and which induces in it what
has been called the panerous fermenta-
-tion.

The vegetables which constitute the
nourishment of man have been divided
into grains - roots - seeds - ~~fruits~~ ^{into fruits} - potables
and salads. —

The grains most commonly employed
as aliment in the United States are wheat,
Rye - ^{Indian corn, Rice} Barley - ~~Rice~~ - and Oats.

Wheat is used chiefly in the form of
biscuit and bread. The former requires
more mastication than the latter, by
which means ^{is not only more divided, but} it carries more of the
saliva into the stomach and thereby
facilitates its digestion. It imparts more
strength to the body than leavened bread.

Bread is made with flour and water,
leavened by means of ^{fixed} air conveyed into
them from yeast, or any other matter
that contains it, — It contains a

great quantity of gelatinous matter upon which its nourishing qualities chiefly depend. It is most wholesome when taken cold. Fresh or hot bread, is ~~more~~ difficult of digestion, and according to Linnaeus is injurious to the teeth.

It is sometimes made with milk instead of water, and eggs, sugar, honey and butter are occasionally added to the flour of which it is composed, but all these additions detract more or less from its wholesome qualities as a daily article of food. That bread is best, which is ~~not too much baked~~, that made of full ripe wheat - that of fresh flower - that is ~~more~~ sufficiently

elevated, or fermented - that is well baked,
that is neither moist, nor dry, and
that has neither a sour nor taste, nor
smell.

Rye affords a bread, less disposed to become
dry than wheat, very nourishing, and
disposed to move the bowels gently, especially
where it is not very finely bolted. A
pleasant bread is made of equal parts
of Rye and wheat flour. ~~The~~ Rye
flour when boiled with water forms
an excellent Aliment called mush which
is ^{both salutary} ~~pleasant~~ and agreeable to invalids
~~be~~ taken with milk, or with a little
butter and sugar, or molasses.

Indian Corn is a wholesome & very
nutritious grain. It is used when green,
^{crushed or} ~~in the husk~~ boiled, upon the Cob, or grated

That has resulted in some few deaths
 that is another point, and by the
 character of the Government - that is well

The above is a description of the
 of the and what flavor. The
 flavor when boiled with water forms
 an excellent drink and is
 is ~~very~~ pleasant and agreeable to
 the taste with milk or with a little
 sugar and lemon juice.

very fine, and baked with cream or
 milk into a pudding, and afterwards
 mixed with a little butter & salt. The
 Indians in this country mix equal parts
 of the green Indian corn dried by means
 of heat, and maple sugar together, and
 in which state they preserve it for
 years. They ~~generally eat it~~ prepare it for
 food by boiling it in water, but ~~cold water~~ ^{boil} when they go to war, and
~~at home they boil it~~ they mix it with
 cold water, and use it ~~as a liquid~~ as
 a drink. —

Indian corn is ^{prepared} likewise ~~in~~ ^{for}
~~in the frozen~~ food by having its husk
 taken from it & in ~~which state it is~~ ^{with}
 called and afterwards boiled with ~~meat~~ ^{in milk or}
 meat. In this state it is called Hommony.
 It is called small hommony when the

is a light and ^{wholesome} ~~pleasant~~ gruel, ^{for invalids} is ob-
-tained ^{by} boiling the flinty part of
the corn in water, and afterwards
straining it, and making it pleasantly
~~a mixture~~ with adding to it
a little sugar or wine, or lime juice.
It is less nourishing ~~than~~ the
flour of the corn. Excellent ~~but~~
~~stimulus for Buck wheat~~ cakes resembling
in their appearance Buck wheat cakes,
but of a more nourishing quality are
made by mixing four parts of Indian
flour with one of wheat flour, and ad-
-ding a little yeast to them in order to
raise or lighten them. They are
afterwards baked, and eaten like buck-
-wheat cakes.

grains of Corn are broken in preparing it. It is further, ~~made into~~ when reduced to a fine powder ~~made into~~ ^{mush} is called Poine - Johnny Cake, and a pudding, ~~that~~ all which forms an agreeable & wholesome aliment.

Persons who feed upon this grain in any of the ways it is in which it is prepared

are capable of ~~great labor~~ ^{greater} ~~persons who live~~ ^{persons who live} ~~in labor than~~ ⁱⁿ ~~from the~~ ^{upon} ~~use of~~ any other grain. An excellent

~~Rice is a simple and pleasant~~
bread is made of equal parts of wheat and Indian corn flour. It retains its moisture longer than wheat bread alone, and it is greatly opening to the bowels. — V

✓ It is much improved by previously
grinding the rice into a coarse powder.
more but useful to page.

nourishing grain.
 Rice is a wholesome & agreeable ~~aliment~~.
 Whole nations live upon it. & ~~it is~~
 when boiled in milk, it forms ^a
~~used in the in puddings, and boiled with~~
 pleasant Aliment for Children. It
 makes an agreeable pudding when
 mixed with milk and eggs. Raisins
 are sometimes added to this pudding,
 but a handful of dried peaches imparts
 a more ~~agreeable~~ pleasant taste to it.
 It is sometimes ~~used~~ boiled & used in
 its simple state, ~~instead of~~ with meat
 instead of bread. It forms a useful
 ingredient in broth, and ~~it is~~ a pleasant
 drink for sick people labouring under
 relaxed bowels when boiled in water. It
 is ^{rendered more useful for this purpose when moderately}
~~There is there~~ The grains of Rice
 roasted.
 are sometimes reduced to a fine powder

V. A pleasant bread may be made of
Rice by ~~and~~ mixing it with potatoes,
or by adding a 5th part of wheat
flour to it. The latter addition
with a little yeast forms a cake
superior ~~when~~ eaten with butter
to the Buck wheat cake.

by first boiling them, and then pouring
off the water in which they are boiled, &
afterwards placing the vessel well covered
over a slow fire. The small portion of
water which they retain is by this
means ~~converted~~ ^{converted} into vapor,
which divides and ^{pulverizes} ~~reduces~~ the grain, to
~~a fine~~ ^{it is} In this state, eaten with
milk, or with a little butter & sugar.

✓
~~Barley is nearly used~~ There is not the
least foundation for the opinion that
Rice is injurious to the eye sight.

Barley is seldom used in bread. It is a
pleasant ingredient in broth: ~~whether whole,~~
~~or broken~~ Its use ~~is~~ in making beer shall
be mentioned hereafter.

Oats is used in this Country as a ~~stimulant~~
for sick people only, [&] in the form of
gruel, ~~It is the lightest~~ ^{easy} of digestion

The meal of ^{in this country}
✓ Buck wheat is used _n only in cakes
with butter. It is in this form
and moderately nourishing, and
when not overloaded with butter
easy of digestion. Mr Barrow
says the Chinese ^{make use of} ~~make~~ a paste from
prepared from it which is as white
as snow.

It is happily suited for this purpose from its being easy of digestion & affording but little nourishment. When infused in water and suffered to stand till it becomes soure, and then strained and evaporated, the residuum forms that Aliment which is called Sorvens. It is cooling, and pleasant eaten with milk, or with sugar and butter. ✓

The Roots most commonly in use as Aliments in the United States are potatoes, ^{the} turnip, carrot, parsnips - but and Onions. The potatoe contains ^{in a given quantity} one third of the nutritious matter of each of them. ^{in a given quantity} of wheat bread, It is mild pleasant and wholesome vegetable. It is eaten boiled, and roasted, ~~whereas~~ It improves ^{the} taste and wholesome qualities of wheat, ~~bread~~, and renders the paste

✓ The potatoe may be preserved in
long Voyages and in hot climates by
being previously heated in an oven
to such a degree ~~only~~ as to destroy
its principle of Vegetation. When
boiled, and cut into small pieces
and eaten raw, with Vinegar, it has
~~been~~ found an effectual remedy in
curing the Scurvy. ^{The Indian or Sweet potatoe} ~~For another prepⁿ~~
of it - see p: 249 of Common place Book
1809. It makes a pleasant soup when
3 parts of it are boiled with one of Onions
and a little bread. It must afterwards be

an apple
of a Dumblin or pudding, when mixed
with an equal quantity of wheat
flour, ~~light~~, spongy, light, and
easy of digestion. Sir John Lincolin
directs them to be prepared for food by
being first half boiled, and then roasted,
or by being first scraped so as to open
a communication through parts of the
skin and the external air, then boiled in
a little less water than will cover them,
and afterwards exposed to a gentle heat
until ~~they are completely~~ all the moisture
~~they~~ was evaporated from them. He
directs further ^{and for an obvious reason,} that potatoes of the same
size only should be boiled together. ✓

Turnips are less nourishing than
the potatoes, but when roasted or boiled

✓ They are deprived ~~by~~ of their bitter
taste by first ~~boiling~~ infusing them
for two or three hours in cold water,
and pouring away a larger portion of
the skin that is ^{done} conveniently in the
ordinary way of ~~drying~~ cooking them

~~Strained and eaten with a little toast
bread after being first made savory
with a little salt.~~

Constitute an agreeable & wholesome Aliment.

Parsnips Carrots & beets contain more ~~more~~ Nutrient than the potato or the turnip in a given quantity. This has been decided by an experiment with respect to two of those vegetables. Two pigs of the same age were weighed on a certain day. The one was fed upon parsnips, and the other upon potatoes. At the end of a month, the one that was fed upon parsnips had gained several ounces more of weight than the one that was fed upon potatoes. [all the roots mentioned under this head require the long application of heat to render them easy of digestion.] The parsnip is much improved in its taste, and wholesome qualities by being placed a few

the addition of salt or
savory ley, boiling a piece of salted
meat in them. Their consistence may
be varied by the greater or less quantity
of water in which they are boiled.
A piece of soft bread ^{boiled in them} renders them more
~~placable~~ grateful to some stomachs &
helps to give them the consistence of
loops. They are eaten with ^{bread} ~~brandy~~.
They are rendered more nourishing by a
~~piece of some~~ a little butter ~~being~~
being ~~be~~ thrown into them, or ^{ley} an egg
well beaten up ^{the} water ~~the~~ boiled in them.

24

minutes in a frying pan or upon a grid-iron over a hot fire, after it is sufficiently boiled.

Onions ~~belong-alike to the roots~~ afford but a moderate portion of nourishment, but by their themselves they impart strength to the body. They are excellent articles of Diet for Labourers. ^{from being the longer} operation of ^{and by} their continued Qualities ^{they upon the body, they are} ~~impart~~ ^{preferable} to Spirits which are too often resorted to by that class of people. They constituted a principal part of the Aliment of the Children of Israel while they ^{lived} in the hot and enervating Climate of Egypt. They form a necessary part of all the vegetable Soups. One 3^d of Onions imparts to potatoes ^{Barley} ~~in~~ ⁱⁿ Mushes - Pease - Beans &c the flavor of Animal Broths. ^{They are} ~~It is~~ rendered still more

W The disagreeable smell which the
asparagus imparts to the Urine, &
which is an objection in some people
to eating it, is completely obviated
by taking a pill or two of ~~solid~~^{what}
~~are called the tears of~~
~~trigeminine~~ ~~after it~~. which cure
from pine boards when exposed to

the heat of the sun. ^{A few drops of}
the spirit of turpentine would answer ^{the same purpose.}
V Whole nations have made them a

principal part of their food. It is was
a common article of diet among the
Jews. The Romans were much attached
to them. The Chinese make a bread of
them by first pounding or grinding them,
and then ^{steering them} ~~mixing the coarse powder~~
~~obtained~~ with water. The water is poured
off while impregnated with the powder of
the beans, and ~~when~~ suffered to stand till
it deposits this powder. The water is =

~~of the seeds~~ Peas ^{compose} beans ~~compose~~ the
 principal classes of aliments that are
 taken from the seeds. [They require to be
 well boiled in order to be nourishing, and
 easy of digestion.] The pea when dried in
 its and preserved in its green state retains
 during the Autumn & Winter a good deal
 of its pleasant taste. When boiled in
^{& water} milk with a little flower, ^{& salt} and a slice of
 bread ^{it} forms an agreeable vegetable
 broth. ^{In its dry state,} ~~When dried,~~ it is an excellent
 ingredient in soup. The different kinds of
 Beans are used in the same way [&]

~~The preparation of~~
 of the pot-herbs, Spinach, - Asparagus, - ^{and} ~~the~~
 the different kinds of Cabbage, are chiefly em-
 -ployed as articles of diet in the United States.
~~The last is offensive to the stomach~~ It is to

= then poured off, and the ^{spinnent} ~~water~~ when
dry is seasoned ~~with~~ with a little salt,
and cut and eaten as bread.

~~All the vegetables that have been mentioned~~
~~and easy of digestion in ^{to a water} food should be well~~
~~boiled in~~ There has been a good deal of contro-
versy upon the manner of preparing all the
vegetables that have been mentioned for the
table. It may be settled in a few words. When
vegetables are well boiled they are most easily digested, and of
course are most fit in that state for persons
who lead sedentary or easy lives. But perhaps
they partake of the action of the fire, the
less easily they are digested, and of course the
more fit they are for men who labor for
their subsistence. By lying long in the stomach
they stimulate the whole body & keep off hunger.
Half baked bread is often eaten by the peasants
in Russia, and half boiled potatoes are eaten
by the ^{poor} people of Ireland for this purpose.
The Germans imitate ~~this~~ this practice in

Cabbage
he regretted that ~~that~~^{it} which is so gene-
rally agreeable to the taste, is so often of-
fensive to the Stomach. It is best so
when it is raised in poor ground, and
after it has been exposed ~~a few weeks~~
the frosts of November or December. ~~It has~~

Its offensive qualities to the Stomach are like-
wise much lessened by boiling it by itself for
a short time, or by suffering it to infuse
for ~~two or three~~ twelve or fifteen hours in water
a little below the boiling point. There is a
wholesome Aliment prepared from Cabbage
called Sauer-Craut. ^{add how prepared also -}
prepared by salt & drying &c.

= feeding their horses & cattle. When they wish to fatten them, they ~~give~~ boil the roots & again they give them, but when they wish to derive the greatest advantage from their labor, they give both in a crude state. ^{or raw state.}

~~They have been divided into such as are acid - as the ^{citron} lemon - the citron & into such contain a mixture of saccharine matter~~

~~with an acid as the orange - the apple, the pear and the peach - the plum, the cherry - the Hawthorn - the grape, the mulberry - the gooseberry &c -~~

They are acid as the ^{lemon &} Currant; ~~and lemon~~ ^{oranges, apples &c} or as the certain kinds of plums;

a compound of acid, and ^{saccharine} ~~water~~

matter as the cherry & the Hawthorn;

a compound of saccharine matter &

water as the melon; - a compound of saccharine and astringent matter

as the quince & the persimmon, and ^{almond - the Cocoa - and} oily as the walnut, ~~the~~ hickory nut,

~~and~~ They are all various in proportion to the quantity of sugar ^{& oil} they contain.

The fruits of the States abounded with most
 of the fruits of ^{all the climates in the} ~~middle and southern~~
 world. From the profusion of other

Fruits
 Aliments, ~~they~~ are used chiefly as Ar-
 -ticles of luxury in the United States.
~~They abound in Saurine matters, and contain~~
~~when perfectly ripe, and not Ripe till~~
~~a good deal of emacination.~~ ^{The} ~~are~~
~~perfection begins in them.~~ ^{They} ~~are~~

~~readily nourishing, and~~ when
 taken in moderate quantities they do
 not disorder the Stomach or bowels. To
 ascribe to any part of them the
 Diseases of Summer or Autumn when
 taken perfectly ripe, and in a sound
 state, is as absurd as to ascribe the
 yellow fever, to the Ships which arrive
 from the West Indies in our

The Strawberry requires sugar,
the ~~thick~~ Some of the melons require
pepper and salt, and the Cucumber
requires pepper, salt and ^{Vinegar} Oil to render
them agreeable to the Appetite, and easy
of Digestion.

Should be eaten before dinner

Some of them retain ~~what~~ their
flavour when infused in sugar
and spirits, as the Strawberry, and
the peach, while others of

filthy harbours in the months of August
and September. The Coincidence of Disease
with ~~these~~ ^{these} supposed Causes, is ~~attributed~~
~~with the summer fruits and the arrival of~~
~~these~~ is accidental in both Cases. Instead
of abstaining from ~~these~~ ^{fruits} or ~~as a whole~~,
~~they should be taken~~ from a dread of their
creating Diseases, they should be taken to
prevent them. They obtain acid life,
and discharge it gently from the bowels,
and thus lessen the heat of the body in
summer. ^{the fruits} ~~They~~ Some of ~~these~~ retain
their qualities when Dried. This is the
Case with the Apple and the Peach. ^a ~~Some~~
~~of~~ them afford a Juice from which Wine
is obtained. ~~This~~ The Currant & the Rhesus,
are best used for this purpose, while
Others the acid and sweet fruits are made
and less fermentable by being baked, or by
being ~~so~~ by being mixed with milk-cream
Sugar, or ~~wine~~ ^{old wine}.

The first of these is the fact that the
 and the second is the fact that the
 and the third is the fact that the
 and the fourth is the fact that the
 and the fifth is the fact that the
 and the sixth is the fact that the
 and the seventh is the fact that the
 and the eighth is the fact that the
 and the ninth is the fact that the
 and the tenth is the fact that the

✓ Chocolate forms a pleasant nourish-
=ment either boiled in water, or
eaten by itself. ~~which~~ The almonds
~~as with the~~ ~~afford~~ when blanched, that is
deprived of their ~~bitter~~ skin ^{by being infused in hot water,} - then bruised
with loaf sugar and mixed with warm
water, afford that pleasant bland liquor
called almond milk, which has often
been prescribed with success in pulmonary
consumption. It may be used as a sub-
=stitute for cream, or milk with lead
Coffee. ~~etc.~~

nourishing to be taken in large quantities
in this way. ^{One half of} ~~From a single~~ ^{nut} ~~history~~
^{pressed between two pieces of hot iron,}
I once obtained thirty Drops of Oil; now
Oil we know occupies the second grade in
the Articles ~~of~~ which afford nourishment
to the body. The Chestnut when dried, makes
an excellent ingredient in Soup. When
eaten soon after they fall from the tree they
are said to affect the head. ~~with~~ Dr Cabanis
says a priest in France informed him,
that the members of his parish were
instructed with more difficulty at the
time they fed upon raw and ~~newly~~
collected Chestnuts than at any other time.
Dr Hoffman has remarked that Dysenteries
are most common where people feed chiefly
upon Nuts. The Cocoa ~~is~~ when mixed with
flower, ^{all these or sugar} ~~and~~ butter into what is called V

Amial

v or Unistial - Agnatio - & amplibi:

amialis

= ms also ~~Amialis~~ & ~~Amialis~~

1

Amialis

Animal food includes quadrupeds,
and birds (Domestic and wild) ^{fish} ~~fish~~,
fish-shell and scaly -
certain Amphibious Animals, insects
& worms. ^{and} ~~and~~ ^{fish} ~~fish~~ and ~~fish~~ ^{fish}. They are nourishing
in the order in which they are arranged.

The Domestic quadrupeds most commonly
used in diet in this country are the ox,
sheep, & hog. The wild ^{quadrupeds} ~~quadrupeds~~ are chiefly
the deer, the hare and the squirrel, & the rabbit,
which afford aliment to the inhabi:
The Domestic birds are the fowl, the turkey,
-tants of the United States
the goose, the duck and the tame pidgeon.

The wild birds are the wild turkey - the
wild goose - the wild duck - the wild pidgeon
the partridge - the grouse - the plover - and the
red bird and a few more not worth mention-
ing.

^{occasionally}
The Amphibious Animals which ~~chari-~~
~~acter food~~ ~~and~~ ~~are~~ ^{are} ~~on~~ ^{on} our tables are
the turtle, and the frog. The former
is eaten in soup. the hind legs of the

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~~I have divided fish into those that~~
~~fish~~

Fish include those
 under ~~this~~ ^{the} head of fish, I shall include ~~the system~~
 the Lobster, the Crab, the Oyster & the Clam,
 as well as the fish that swim into the
 water. They differ in their qualities according
 as they are taken in fresh or salt water.
 The ~~latter~~ ^{former} are more easy of digestion than the
 latter. They differ further according as they are
 taken in running, or stagnating water.
 The latter are less digestible than the former.
 In point of solubility in the stomach, and
 nourishing qualities, they possess an in-
~~mediate~~ ^{vegetables and} degree between land Animals.
 and ~~so~~ whole nations have lived chiefly upon
 them. In countries near the poles they
 supply the scanty ~~for~~ vegetable productions
 of the earth, and ~~the~~ ⁱⁿ tropical climates
 they afford an aliment ~~or suited to the~~ ^{procured with but}
 little labor, and of course suited to the

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and mostly obscured by a large diagonal crease.]

indolence which heat induces upon the body.
They ^{in point of solubility in the stomach, and} possess an intermediate Aliment be-
-twixt Vegetables and Land Animals. being
~~more digestible & nourishing than~~ they are
more nourishing than the former, and less
so than the latter; hence they are prescribed
to invalids, and to convalescents from acute
diseases. The shell fish contain less nourish-
-ment than ^{the scale fish or} those that swim. Lobsters and
Crabs ~~are~~ are less nourishing than
Oysters and Clams. It is a custom of the
West Christian Church to enjoin the Use
of fish alone ~~as~~ with vegetables as a diet
during the season of Lent which includes
forty days ~~during~~ ^{of} the Spring months. This
institution is a truly wise one, and should
have been retained by those Sects that
separated themselves from the Church of
Rome. Its Advantages are: it reduces the
Quantity of nourishment taken into the

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 15 horizontal lines.]

body, and consequently opens ^{plethora and} the predisposition
 to inflammatory diseases at a season when
 they are most apt to prevail. ~~It does~~
 It has this effect not only from the less
 quantity of nourishment conveyed into the
 body, but from the diminution of appetite
 which the same food taken for a long
 time generally creates, and 2 It relieves
 us from the anxiety of feeding upon land
 animals ~~when they~~ at a time when
 they are propagating their species, and of
 course ~~less fit~~ when they are ~~least~~ ^{most} fit
 for alignment.

The Amphibious Animals which occasionally
cover our tables are the turtle & the frog. The
former is eaten in soup. The hind legs of the
latter only are eaten. They afford ~~but little~~
~~nourishment~~, are pleasant ~~like~~ vehicles
for the seasoning that is used with them,
for they afford but little nourishment.

the only one who has been able to do so.

the only one who has been able to do so.

the only one who has been able to do so.

the only one who has been able to do so.

the only one who has been able to do so.

latter only are eaten. They are considered as a ^{highly} delicious kind of food. —

citizens
2d supply for the inhabitants of the United States, the ample supply which it hath pleased a bountiful Providence to afford them, of the numerous ~~and~~ pleasant articles of food which have been mentioned does not enable it necessary to have recourse to the insects or worms of our Country for subsistence. —

distance. —
I shall take notice of fish as an
article after delivering some general
remarks upon the ^{relative salubrity of the} ~~relative~~ ^{quanti-}
~~preparing, preserving, and the~~
^{land} ~~clases of~~ animals that have been mentioned,
~~and upon~~ ^{and upon} ~~their~~ ^{their} ~~relative~~
~~salubrity~~ and upon the manner of
preparing and preserving them. —

and its Solubility

Stimulus

The ~~Solubility~~ of animal food in the stomach, also ^{and wholesome} its subsequent nourishing qualities depend upon the following circumstances.

1 The sex of an animal. The females of all animals are more tender, and easier of digestion than the males. ~~Animals that have lost their Virility are~~

Liberum

2 ~~Animals that have lost their Virility are easier of digestion than those that have~~ the state of an animal with respect to Virility. ~~Queen, heathers, and Capons are~~ easier of Digestion than the bull, the ram and the Cock. -

3 The Age of an animal. Adult animals ^{stimulating, & digestible} and afford more nourishment ~~are more easy of digestion than~~ young animals. Beef and mutton are in their most perfect state when.

✓ ~~no difference~~ ~~fish~~. There is no difference
with respect to its between young and old
fish, with respect to its digestible & nour-
ishing qualities.

✓ every part of its flesh, more so
than its ^{heart} liver, kidneys, and intestines.
The brain, ^{but} and lungs afford but
little nourishment.

Birds predilection - as after hawks
Deer. • Raven Eagle

they are about five years old. Old beef
may be distinguished from young that
which is young, by its fat being diffu-
sed alide through every part of its flesh,
whereas in young beef the fat ~~is~~ ^{is}
more confined to particular places. ✓

4 Upon the Clap, and Species of Animals,
wild animals are more easy of Digestion,
than Domestic; ~~the turkey and the~~
~~fowl~~ Beef and mutton are digested more
easily than pork, and the turkey &
fowl more easily than the goose, and
the Duck.

5 Upon the ^{of animals} ~~parts~~ ^{parts} which are the objects
of aliment. The ~~leg~~ Loin of Beef is more
digestible than other parts of its flesh, &
the legs of ~~birds~~ ^{domestic} wild birds are
^{easily digested} more than their wings from being less
brained by constant exercise.

6 The time and manner in which
 Animals are prepared for the slaughter
 house. Animals that are fattened gradually,
 and that partake of exercise ^{afford a more} are more
^{of strengthening Aliments}
~~capable of digestion~~ than Animals ~~that~~
 are stall fed, and fattened suddenly. The
 superior excellence of the Irish beef depends
 upon its feeding for two years in pasture
 where they ^{have} plenty of food, and room to
 exercise their limbs before they are killed.
~~They are~~ All Animals are most wholesome
 when their food is most abundant. The
 Pork is insipid in Summer, compared
 with what is in the Autumn when there
 fruits and roots abound upon which it
 delights to feed. ~~The best Animals~~ ^{afford}
~~the best wholesome~~ ^{food} during the time in

✓ Aliment in wet than in dry
Seasons; ^{Sheep thrive most in dry}
~~the less rain, the more~~
^{weather,} ~~delicious the vegetation in all seasons.~~
~~rain~~
-~~ness~~, provided it does ^{not} there be
enough to prevent keep up the
vegetation of the grass.

11 Sheep that have lived up on moun-
-tains ^{afford a} ~~are more~~ ^{strengthening} ~~wholesome~~ ali-
-ment ^{than} ~~than~~ live upon plains. Their
flesh is improved by their greater
exercise, and by breathing mountain
air.

which propagate their Species

7 Upon the Season in which they
are killed. All animals are ^{are more or less} ~~are~~ ^{life} ~~whol:~~
^{more or less unwhol:} ~~come~~ in the Spring at which ^{time} they
propagate their Species. ~~than in the~~
~~winter~~ and they are ~~whol:~~ ^{are} ~~whol:~~
= come likewise in the Autumn than
than in the winter from the influence
of the Summer heats upon their
blood and flesh. Swatton is ^{is} ~~is~~ fitted for
8 Upon the place in which they have
been ~~fat~~ fattured. ¹ Animals that have
fed during the Summer ^{or near to} ~~in~~ ⁱⁿ ~~marshes,~~
are often affected with obstructions &
Abscesses in their livers from the
same kind of exhalations which pro-
= duce bilious Disorders in the human
Species. Animals fed upon the Grass

[The handwriting in this block is extremely faint and illegible.]

and grain which are forced by the man-
 =ure of large cities, are less fitted for food
 than those which ~~as~~ derive their flesh
 & fat from ^{the} pasture and grain ~~that~~ of
 ground that has not been ^{not felt the} ~~manured~~.
 influence of stable manure.

I upon the exercise they undergo previously
 to being killed. The quicker ~~the~~ Digestion of
 wild, than domestic animals is occasioned
~~by~~ ^{by} their being more exercised in run-
 =ing & flying. Art has imitated nature
 by introducing the practices of bull bating,
 Cock fighting and the Chase in order in pro-
 =duce a similar tenderness in the flesh
 of domestic animals. a fowl is ~~always~~
~~more~~ rendered more digestible when
 chased for some time before he is killed.
 The flesh by these exercises, ~~acquires~~

V 10 upon the food upon which Ani-
mals have been fed previously to
their killed. The hog affords a more
wholesome aliment when he ^{feeds} upon
acorns, and grain, than when is fattened
by the swill and offals of a kitchen.

The flesh of the deer in England is pre-
ferred to the flesh of the wild deer in
America from its feeding upon the Thyme
which grows in the parks in which
they are kept. They live in dry heaths and where
they are kept they feed upon short grass. —

the black color from which wild
animals have obtained the name
of black meats. From the quick
digestion of wild flesh, and the ^{speedy} debility
return of appetite and debility after-
wards, the in-tetters in our countries
complain of an inability to work when
fed upon it, and soon call for the
flesh of domestic animals which by
its longer duration in the stomach keeps
up a more strength and excitement in
the system. V

~~They. Upon the quantity of fat they con-
tain. The lean parts of fat animals
is more nourishing than the lean parts
of such as are lean]~~

18 Upon the manner in which they
are killed. The more suddenly life is

V This remark extends to fish as well as
to land animals, and hence fishermen
often ~~break~~^{break} the heads of fish as soon as
they come out of the water, and thus
prevent the injuries which their flesh
sustains by their ~~strong~~ convulsive
motions when they are thrown upon
the ground.

extinguished in them, the life disposed they
 are to a rapid solution in the stomach!
 To this, ^{general rule} there is one exception. Dr Franklin
~~found~~ he has taught us by a number
 of experiments that animals killed by
 strokes of Electricity are easier of digestion
 than animals killed in any other way.
 The life blood is drawn from animals
 in taking away ^{their flesh} their lives, the sooner ^{they} ~~they~~
 pass out of the stomach. To prevent a
 mistake in judging of this fact, it will
 be necessary to add, that fat animals ^{which} when
^{being suddenly fat,} ~~killed~~ contain less blood than lean such
 as are lean, and of course pour forth
 less from their blood vessels when they
 are killed.

12 Upon ~~this~~ the quantity of fat they
 contain. The lean parts of fat animals,

all animals is more nourishing than the lean, but it is more slowly digested. For this reason pork is preferred by labourers to beef and mutton. It affords most nourishment by its longer confinement in the stomach, and most nourishment from its larger quantity of fat fat.

11 Fish likewise, from ^{its} rapid tendency to putrefaction, should be eaten as soon as possible after they are taken out of the water.

12 Animals that are bled plentifully when they are killed, are less disposed to putrefaction, than those that are not. This is the case, with fish as well as land animals. The taste and ~~wholesomeness~~ ^{simplicity and} the former are rendered more ^{wholesome} ~~food in warren~~ ^{when killed thus bled to death.}

is more easily digested than the lean parts
of such as are destitute of fat, ~~the fat of~~ ^{The fat of}
the time in which they are
13 upon ^{the} being kept after being killed.
~~a longer or shorter time~~ The longer
meat is kept before it is eaten, the more
readily it digests. To this ^{there} are a few
exceptions. The pig, the goose & the duck
should always be eaten on ~~the day~~ within
^{from twelve to} four & twenty hours (according to the state
of the weather) after they are killed. The
flesh of animals that ^{have been} kept for several
days without food before they are killed,
keeps much longer without being taint-
ed, than the flesh of animals that
are killed with full bellies. ^{the flesh of} Poultry keeps
longest when their entrails
are extracted from them. ^{It is} The flesh, by
this means, is preserved from a disagree-
= able taste

✓4 By the complete exclusion of the
Air. a sea Captain informed me that
he buried a hog of mutton in the
middle of a barrel of flour in Philadel-
phia, and took it out ^{three weeks afterward} in a sound
state ⁱⁿ ~~After a voyage of three weeks to the~~
Island of Barbados.

5 By ~~wrapping it up~~ covering it com-
-pletely with the powder of Charcoal.

6 ~~The late Dr. Choquet while he resided in~~
~~Jamaica introduced the following method of~~
By sprinkling it with salt. meat preserved
in this way is said to be corned. The late

Dr. Choquet while he resided in Jamaica applied
the salt in the following manner. ^{He killed} ~~The~~
~~the animal by opening~~ drew all the blood
out of the ^{of the animal} body by opening the Carotid Ar-

-tery. As soon as ~~the animal~~ ^{it} was dead,
he poured ^{by means of a pipe} a strong solution of salt water
for ~~in~~ two or three days into the blood:
-vessels through the opening made in
the Carotid Artery.

taste
 which it derives from the contents of the
 bowels. We may always know when
 a poultry are upon the eve of putrefaction,
 and ~~of course~~ ^{consequently} most fit for the spit, by
 the relaxation of the spineter of the loins,
 in which case there is an aperture of
 that extremity of the intestines. There
 are several ways of preserving meat in its
 fresh state in warm weather. These
 are: 1 by placing ^{it} in an ice house, or
 surrounding it with ice in a ~~cool~~ ^{ice} cell,
 or Cool Cellar. -

- 2 By suspending it in a damp & cool well.
- 3 By keeping in a Cool and Dry Cellar
 which is ventilated by a Chimney.
- 4 By immersing it about a foot below
 the surface of cold ~~water~~ spring water.
 It will be most safe in the cold water

By burying it
8 V ~~upon its being buried~~ one or two feet in
the earth. -

Spring on
of a ~~sp~~ⁿ milk horse. This mode of
~~a book on~~ preserving meat was discovered
by the late Dr Edwards. It will retain
all its sound and wholesome qualities
for eight [&] ~~or~~ ten days in this situation
in the months of July & August. It
contracts a pale color in the water,
but when a knife is thrust into it,
~~the~~ blood follows it as if it had been re-
cently killed. It should always be ~~deep~~
cooked as ~~fast~~ soon as possible after
it is taken out of the water. ✓

99 It is said flesh putrefies sooner when
exposed to the light, even of the moon
than in a dark place. I would rather
suppose the influence of moonlight
upon the animals before they were

killed disposes this flesh to a more speedy
 putrefaction than ^{by any effect upon it afterwards.} ~~under other circumstances.~~
 What makes this probable is that Crabs &
 Oysters are larger & fatter during the full moon
 of the moon than at any other time.
 - Perhaps the ^{influence of the moonlight upon flesh} ~~fact~~ has been ascribed without
 sufficient examination, from ^{its} ~~the~~ inhibi-
 ting Animalcules ⁱⁿ During moon-
 light than at other times, and that in con-
 sequence of those animals being allured by
 the light, to deposit their eggs upon it.

Thunder and lightning certainly hasten
 the putrefaction of ^{flesh} ~~meat~~, and as there ^{are no} ~~is means~~
 of obviating its effect, it will be unparaly to use
 it as soon as possible after it has ^{been} ~~been~~
 this influence. —

Meat when but little tainted, may be
 restored by infusing it in Lime water, or
 wrapping it up in ^{the powder of} Charcoal. — The lime
 water is most certain in producing this effect upon
 fish.

is by previously pounding raw flesh that
✓ ~~It~~ ~~this~~ ~~is~~ ~~the~~ ~~French~~ ~~Cooks~~
prepare ^{it} ~~this~~ ~~meat~~ for the pot, and
the Spit.

+ a note from on Digestion

I return

13 Upon its being pounded or beaten before it is cooked. Dr John Pringle found that flesh ~~meat~~ when beaten in water, putrefied in half the time that meat does that is left to itself in a quiet state. ^{farility with} ~~the~~ The ~~expidit~~ ^{expidit} ~~gentle~~

~~which this makes~~ which meat digests in the stomach is in proportion to the rapidity with which it putrefies out of the body ~~the~~

14 Upon ~~be~~ its being thoroughly ^{done} ~~done~~. The opinion of half done, or half cooked meat being ^{easiest} ~~more easy~~ of digestion, ~~than it~~ has been refuted by a number of experiments made by Dr Stevens of St Croix and published by him ^{in 1792} in his inaugural dissertation.

15 Upon its being thoroughly masticated. This has likewise been proved by experiment by Dr Stevens. Where this cannot be done from ~~decay~~ ^{want} of teeth, or from the want of teeth, the meat should be previously minced or cut into small pieces. The connection of sound

~~✓ Long as it lies in the stomach it~~
✓ and which after all I believe ^{is} never
able to extract all its nourishing
Qualities from it. ~~and~~ Wild beasts are
said to use their strength to eating raw
flesh. ^{Perhaps they} ^{& Digest} eat raw flesh because they
^{are} strong. The same reasoning apply here
that were applied to the cooking of vegetables.

a note

+ The Barley broth is made according to Sir John Linclain by boiling a leacup full of Barley for half an hour in a gallon of water - then add - three pounds ^{lean} of Beef, or a neck of Mutton, with Carrots or turneps and Onions cut into small pieces, And a pound of Green peas when they are in season, and let them boil gently for two hours. ~~with~~ ^{A little salt must be added afterwards.}

Vegetable is made by boiling an old ~~some leacup~~ ^{some leacup} of beef, ~~fresh~~ ^{licks & dried} ~~or fowl~~, with a piece of beef, & some peasc for some time in ^a water in the usual quantity of water, and for the usual time, & afterwards the usual quantity of salt.

Soup Grape is made by boiling five pounds of beef in gently for four hours in a gallon of water to half a gallon with Onions, Cabbage, Carrots, and as much salt as will render it agreeable.

Flesh is prepared for food,
1 by being boiled in water with certain
additions of vegetables & condiments, & ^{many}
thus made into soups or Broths. ~~The East~~
nations in the world have preferred
~~the~~ flesh prepared for food in this
way. The Spartans had their black
broth, the Scotch have their barley
broth, and Cucklebury, and the French
their Truss grape. ~~& soup & crapes~~ These
excellent liquors should always compose
the first dish of every temperate family.
They not only afford ~~but~~ a great deal of
nourishment, but they sometimes by
~~obeying the first~~ damping the appetite to
prevent excess in partaking of subsequent
dishes. They are most salutary and
agreeable when made by placing

+ Gravel only

with its vegetables & seasoning
 the meat, over a slow fire well covered,
~~with~~ and in water which should be kept
 for four hours a few degrees below the
~~point~~ boiling point agreeably to the advice
 of Count Rumford. In this way we obtain
 the juices of the meat with but little of
 its fat. ~~The fat should be made to rise~~
~~to the surface of the water just before~~ Just
 before the pot is taken off the fire the water
 should be made to boil in order ^{for a few minutes,} to throw
 the fat to its surface. ^{then skimming} This fat is ~~then~~ ⁺
 off, and the broth becomes fit for use.
 the meat from which the broth is made
 is sometimes so much exhausted of its
 nourishment as to be incapable of ~~undergoing~~
 preservation. — There is ^{another} mode of obtaining
~~By boiling Roasting.~~ meat thus prepared
 is ~~not~~ = ing the juices of meat, and

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bound or more
that is cutting a piece of meat from
which the fat has been separated, into
small pieces and putting them in a bottle
or jug well corked ^{with} a rag tied over the
Cork, and then putting it into a pot of
water which is gradually heated, and
then boiled for four or five hours.
From a pound of beef or mutton half
a pint of liquor is thus obtained. When
seasoned properly, it makes a pleasant
and very nutritious article of liquid
Aliment.

2 Roasted meat is ~~stomach~~ ^{both valuable in the} ~~stomach~~ & nourish-
ing from its particles being confined by
the crust being formed over it by means
of the fire. The fibres of the meat are
softened by the action of the fire upon them
get its juices.

nearly the same in
 3 Broiled meat is ~~the same as~~ ^{roasted} meat. The more
 its qualities as roasted meat. The more
 intense the heat over which the meat
 is placed whether on a gridiron or live
 coals, the what are called steaks are
 prepared in this way. ~~The~~ By confining
 the surface of the meat by means of a
 quick or intense heat, ^{its} ~~the~~ juices are
 confined, and the meat becomes more
 nourishing. The stevers in Cornwall
 prepare their steaks by placing them upon
 the smooth surface of large blocks often
 in the instant of their passing from a ~~solid~~
 fluid to a solid state. The lower part of
 the meat is ^{thus} ~~the~~ ^{so} hardened, ^{by the intensity of} ~~by the intensity of~~ ^{that}
~~the heat, that~~ all its juices are retained, and the meat
 thereby rendered more ~~tasty~~ ^{taste} of digestion
 and nourishing qualities of the meat

V 4 By being half boiled^{ed}, then cut into
stakes and broiled. Mutton is ~~much~~
~~improved in tenderness~~ rendered
more tender & savory when cooked
in this way.

5 By boiling. ~~wherein is~~ a considera-
-ble portion of the nutritious matter of
meat is lost by this mode of preparing
it for aliment. It is in this state
suited to convalescents from fever, &
to persons of feverish habits. Mutton
is most wholesome when cooked in
this way, and so are ^(contrary to common opinion) geese and ducks.
The water dissipates the oily ^{parts} from them,
and thus renders them a milder, and
more digestible aliment for weak sto-
-mach. Fish by throwing off a portion
of ^{its} oil in boiling becomes more easy of
digestion than when cooked ~~than~~

thereby increased.

✓ By
Frying. The butter, oil, lard, or bear
grease in which meat is usually
fried is often so much altered in its
qualities by the fire as to render the
meat prepared in this manner less
~~agreeable and~~ easy of digestion than
meat prepared in any of the ways that
have been mentioned. — Fish is generally
cooked in this way. —
By means of Vapor. The meat prepared
in this way is placed upon a stand in a
pot which is closely covered. This pot
is placed over a fire with a small quan-
-tity of water in it. The heat of the fire
converts this water into Vapor which
by its intense heat, ~~renders~~ ^{renders} the meat
~~into a pleasant and nourishing~~ and
easy of digestion.

in any other way. We may always know,
when fish ~~has~~^{is} boiled enough when
it floats upon the surface ~~upon~~^{of} the
water. It sinks a second time when
it is boiled too much. | I shall mention
hereafter the ~~conditions~~ ~~that~~ ~~as~~ ~~matters~~
that are mixed with it in order to render
it palatable after it has undergone the
action of fire. +

8. By baking. meat thus prepared retains its juices, but its surface is often so hard - and by the fire as to be unpleasant to the taste. When baked with other ^{articles} ~~dishes~~ of food it is apt to contract ~~the~~ a taste from each of them.

9 By being made into what are called steaks or ~~steaks~~ with ~~cut~~ bread, and certain vegetables. Meat is agreeable & nourishing when prepared in this way. mutton half roasted and then made into a hash, Dr Franklin used to say was the most agreeable mode of preparing that kind of flesh for the table.

10 By being baked, or boiled in a paste made of flour & ^{or butter} in which state they are called meat and pot pies. The meat thus prepared is softened by the fire, and retains with its juices a great deal of nourishment. The

Vand Flowers of digestion.

paste is rendered more digestible by the mixture of an equal quantity of potatoes with the flour. -

11 By being ~~dryed~~^{exposed} for several months to the action of smoke. The salt contained in the smoke resists the tendency of flesh to putrefaction, while its dependant lituation discharges its juices which likewise helps to prevent its putrefying. ~~It~~

Beef and certain ^{fish} are prepared in this way for Aliment. They ^{stimulate the Digestion} ~~contain~~ but little nourishing, but they are ~~not~~ but they are hard of digestion, and ^{convey} ~~contain~~ but little nourishment into the body. They are preferred by labourers from this difficulty.

12 By being exposed to the action of the sun. Stock fish is prepared for food in this manner.

13 By being infused in ~~brandy~~^{Viniger}. ^{Galenon} ~~is infused~~ and Oysters are prepared for the table in this way.

11. By being born in a house of sinners, the law
of God is broken, and the child is born in sin.
12. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
13. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
14. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
15. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
16. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
17. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
18. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
19. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.
20. By being born in a house of sinners, the child
is born in sin, and the law of God is broken.

They lose a portion of their nutritious matter in the Vinegar, and they ~~are~~ ^{pep off slowly from} ~~difficult of solution~~ ^{in the stomach.}

~~As a~~ It is often necessary to procure Animal food for months in order to be used in situations ^{and seasons} in which it cannot be procured in a fresh state, as the means of drying this are

1 By Common salt. This is the most universal preservative of ~~meat~~ flesh of all kinds. To be effectual, it should ~~get~~ ^{penetrate} ~~the meat~~ be applied in such quantities as to penetrate ^{its interior} the juices, ^{after} ~~the salt~~ if a small quantity ~~only~~ be applied, it acts only upon the surface of the meat, and by hardening it, confines ~~the~~ its juices, and thus ~~dis~~ accelerates, instead of retarding ~~the~~

✓ salted meat and fish ^{is} less ~~is~~ none
-riching than fresh.

~~#2~~ By sugar and molasses. ^{this has} They
~~proving~~ ~~are~~ ~~too~~ ~~expensive~~ ~~to~~ ~~be~~ ~~in~~ ~~common~~
~~use~~. The efficacy of these articles in
preserving flesh has been proved by
several experiments made by Sir
John Pringle. They are too expensive
for common use.

its
putrefaction. ~~of the~~ The addition of nitre
to the salt improves its antiseptic qualities,
and gives an more agreeable flavor &
color to the meat. The sooner these salts
are applied, after the ~~death~~ ^{is killed} of the animal
the better. Captain Forrest in his voyages
to several of the Islands in the ^{East Indies} advises cutting
out the bones of meat, more especially
of pork before it is salted, for putrefaction
he observed always began first ^{near} the
bone when it was salted in the common
way, in consequence of ~~the~~ its not being
penetrated by the salt and owing out a
fresh matter which putrefied, and con-
-aminated the Caribbees flesh. ✓

3 By the heat of the sun. The Indians
cut their Venison & Buffalo meats
into small pieces and hang it up
upon sticks passed through them in the
air. The moisture is by this means

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dissipated from them, and their putrefaction prevented. A Sea Captain informed me that he had in this manner ^{preserved} the freshness of meat at sea. ~~He ate it~~ as he wanted it made into Soup. The Stock fish I have said is preserved in this way.

4 By freezing. Flesh is preserved in cold Countries entirely in this way during the winter. It ~~then~~ is thawed by being immersed in successive quantities of cold water. When thawed in warm water, it loses a good deal of its savoury ^{taste.} ~~part~~

5 By smoke. ^{Beef, hams, and several} ~~hams are preserved~~ kinds of fish are preserved ^{after being salted.} in this way. ^{They} ~~which~~ are afterwards subjected to the action of fire before they are eaten. ~~Then~~ The smoke which is applied to

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Steam is not always sufficient to preserve them from putrefaction. They have therefore, when taken from the smoke house, been buried in sand or ~~wood~~ ^{ashes} ~~the~~ ^{or} dry sand for that purpose, but often without ~~success~~ ^{effect}. Greater success has attended burying them in cut straw, ~~and~~ or tying them up separately in bags made of coarse linen, and hanging them with their small ends downwards in a cool dry cellar.

6 By being boiled until the meat imparts all its nourishing qualities to water, and then reducing ~~this~~ ^{it} ~~water~~ to a thick consistency by boiling it a second time. The matter thus obtained, has been called Patent Soup. It is dissolved in boiling water ~~and reduced to a~~ ^{it is} as to form a liquid soup, when ^{it is} required for use.

V most agreeable Article of Aliment,
and well accommodated to the all
~~seasons~~^{the seasons} with ~~vast~~^{various}
Ages of ~~the~~^{the} and Countries. ~~a~~^{as} The hardships
& honeyⁿ were, the only articles of Diet in
of a ~~Canaan life~~^{life} were induced for forty
years by the Children of Israel to
held out to the Children of Israel to
reconcile them to the privations of a
Camp life for forty years in a Wilder-
ness, and to allure them to the promised
land. ~~of Canaan which was said to~~
~~flow with those delicious Aliments~~

Vegetable & Animal

There are besides the ^{two} ~~substances~~ ^{substances} that have been enumerated. ~~several other~~ ^{two} ~~substances~~ ^{substances} related to both which ~~whole~~ ^{large} constitute a ~~large~~ ^{large} portion of the food of man. These are milk & eggs, ~~tea, coffee and chocolate, upon which~~ ^{of} I shall make a few remarks upon each of them.

Milk ~~abounds in~~ contains but little stimulus, abounds in nourishing matter, and is of easy digestion. It is a ^V ~~It is composed of three parts, into which it separates spontaneously when left to itself - these are, butter - cheese & whey. The butter is of a vegetable nature, the cheese partakes of the qualities of animal food - the whey is - nothing but water with a portion of lacticine matter~~

V or baked with both into puddings.

b It forms a pleasant desert when made into what is called Grindel by means of a piece of Rummet, or by adding a little wine two table spoons full of a quart of wine into which a whole rummet has been infused, to half a gallon of milk. -

an agreeable article of diet of diet prepared from milk
There is a pleasant substitute ^{which is} ~~for butter~~ used by the Germans in Pennsylvania called ~~for~~ Smeat. -
- case. It is made by ~~pouring~~ ^{pouring} milk before the fire until it forms a coagulum. The whey is strained from it and to the remaining curd an equal quantity of Cream is added. Over this mixture is sprinkled a little pepper and salt. It is ~~spread~~ ^{put} upon bread instead of butter. ~~It is~~ ^{It is} least offensive to stomachs disposed

to acidity when taken without being skimmed. The ~~better~~ Cream blunts the acid ^{whether it} ~~which~~ ^{preexists} in the stomach or ~~is~~ ^{is} be formed by the decomposition of the milk.

It is obtained from many
~~disolved in it~~. The Butter is nourishing
Animals, but that which is used in our country
is the second degree. ~~From the quantity of~~
is obtained only from the cow. This
nourishment contained in butter it ~~is~~ ^{is}

~~should be eaten in moderate quantities in~~
is usually eaten

Milk ~~is~~ ^{is} ~~usually~~ ^{usually} ~~eaten~~ ^{eaten} by itself, or mixed with bread,
or ~~with~~ ^{with} ~~or~~ ^{or} ~~raw~~ ^{raw} - baked, - or preserved fruits, or roasts, &
or much ~~or~~ ^{or} ~~it is~~ ^{it is} ~~boiled~~ ^{boiled} with flour or rice,
potatoes,
~~afford many nations feed upon it chiefly~~

It is sometimes pressed ~~in~~ after it has
become sour,
~~undergoes its spontaneous decomposition~~

in which state it is ~~aid~~, and is called
Bourne Clabber. In warm weather it is
most agreeable as well as most salutary
when taken in this way as it serves to
obviate the tendency of the system to that
state which predisposes to fevers. Macdonald
in his survey of the Turkish empire
speaks in high terms of an ~~acid~~ ^{acid} ~~preparation~~ ^{Aliament}
prepared from milk rendered phosantly
and by means of a ferment, which the

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Turks call Ypourit or Leban.

~~Butter~~ milk is composed of three parts
 viz Butter - Cheese and ^{Whey} ~~Cream~~. They separate
 into these parts spontaneously, or they
 are separated ~~by~~ into them by means of
 Art. The butter possesses all the common
 properties of a vegetable oil. It is formed
 from the Cream which rises to the surface
 of milk after it has stood for some time,
 by Churning. The more completely the
 cheesy and watery parts of the milk, are
 pressed out of the butter, the less disposed
 it is to become rancid. By repeated wash-
 -ing ~~the~~ in water, this rancidity may be
 removed, for the parts which perhaps, are
 soluble in water. It is nourishing, but
 cannot be taken in large quantities without
 offending the stomach. It is said to be

+ "Sunt mihi poma, præpigne copia
lactis." Virgil

Gold in the morning. Silver at noon, &
lead at night from which it may be
inferred that it ~~cannot be~~ requires the
vigour which the system possesses during the
day, to digest it. It is never eaten alone,
but ~~forwards~~ with bread, - or ~~is~~ ^{with}
other aliments. When ~~both~~ dissolved, ^{when}
baked, it is more difficult of digestion than
taken in its ^{solid} ~~simple~~ state.

Cheese is the animal part of milk,
and contains more nourishment than
Butter. When ~~few~~ ^{the same of it} ~~large~~ quantity of it
may be taken daily as of meat. By
age it acquires ~~an~~ a pungent taste which
renders it more proper for what ^{as is} ~~I shall~~
called a Condiment, ^{of} ~~and~~ which I shall
treat ~~presently~~ in the next chapter. It is
eaten only with bread, or with certain
raw fruits. The Romans ate it with apples.

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The whey of milk contains a small portion of saccharine matter dissolved in water. It is a pleasant aliment for invalids and convalescents from acute diseases, taken by itself or eaten with bread. —

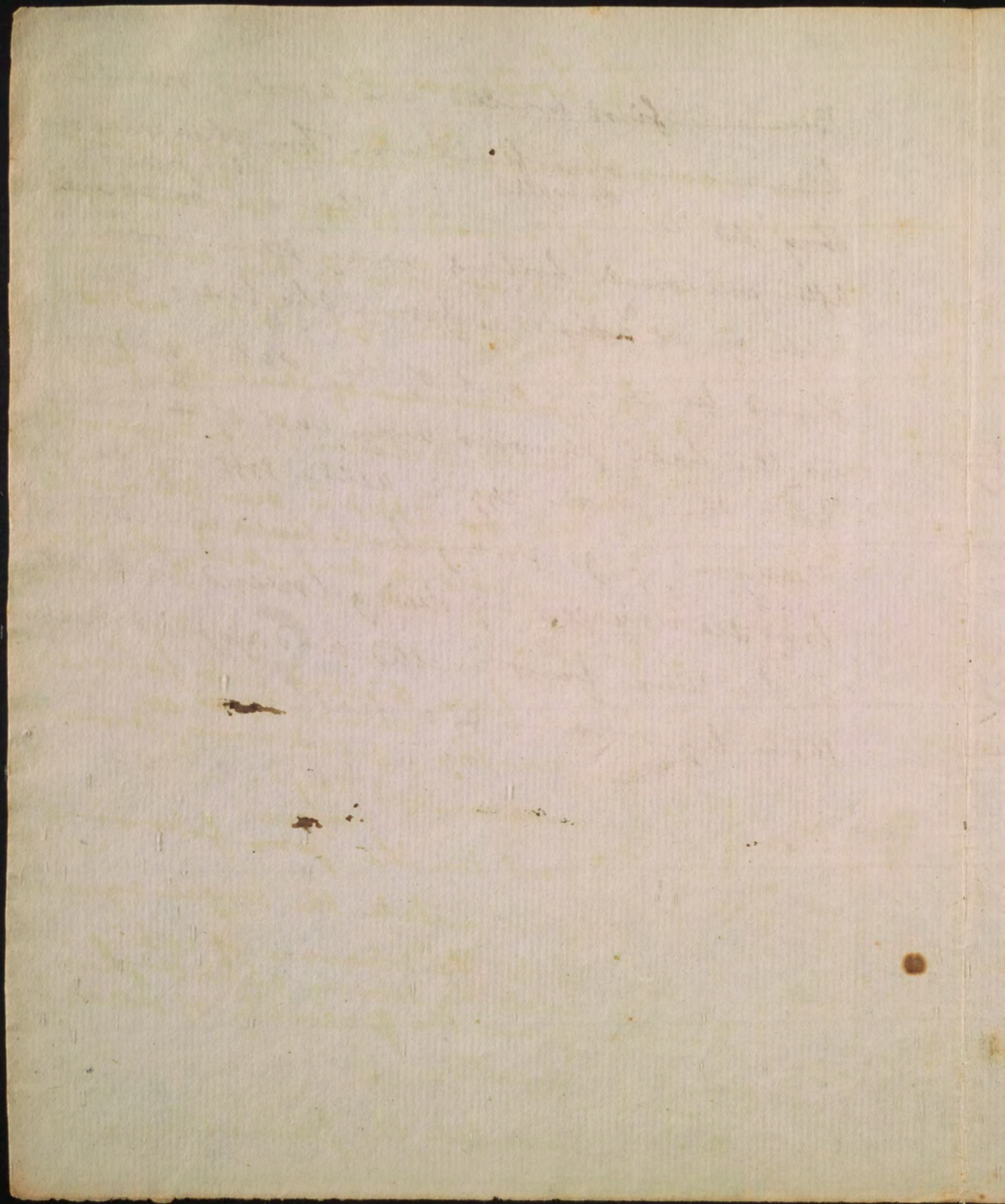
so much of the ~~late~~ healthy and useful qualities of milk, and ^{of} its products depend upon the ^{aliment} ~~the~~ food, and the treatment of the cow. ~~the~~ the former should be excellent, and nourishing, the should ~~be~~ have room to exercise herself in walking, and where this is not practicable, she should be ^(to use the horse's phrase) rubbed down every morning and evening. The milk is not only increased by these means in its quantity, but much improved in its qualities.

For and by the ~~and~~ increase of the cavity
in which the air is contained. They are
taken raw, or beaten up ~~by~~ in water,
wine, Spirit, and hyson tea. ~~in all~~
~~which existences they afford a good~~
~~deal of nourishment~~. They form
an excellent substitute for cream
when beaten up with any of the ^{India} ~~China~~
teas. They afford most nourishment
when ~~to~~ taken in this way, but they
are less digestible, than when they have
~~not been~~ partaken of the action of
fire by boiling, or poaching,

Eggs constitute a considerable part of the food of the inhabitants of many countries. They are, like milk, of a compound ^{nature}. - ~~getable & animal matter~~ The white of the egg is of the ~~belonging to the~~ ^{it} ~~proposes~~ vegetable; and the yolk animal. ^{and of} ~~They are~~ ^{the latter} ~~proposes~~ ^{is} ~~formed~~ ^{is digested sooner} under equal circumstances than the former, ^{on} ~~for~~ ^{account} which it is sometimes prescribed ^{alone} ~~without its white~~ for weak stomachs. We may always know when an egg is sound by ^{larger} ~~small~~ ^{end} ~~its~~ ^{a sensation of} ~~impacting~~ ^{a sense of} ~~it~~ a moderate heat to the tongue, ~~they are~~ ~~entirely prepared for food in their simple~~ ~~state by boiling, or~~ ^{or} ~~by being mixed with~~ ^{into} ~~cream or milk~~ ^{or with} ~~flour or rice~~ ~~the~~ ~~the~~ ~~like~~ ~~into~~ puddings. ^{should be} ~~They are~~ ~~not~~ ~~digested~~ ^{are cooked in a heat below the boiling point} ~~when they are~~ ~~in a liquid state~~ ^{are best} ~~may be~~ ^{preserved} ~~by being~~ ~~covered with butter or~~

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Bees wax first melted, and applied over them
 by means of a feather. For this purpose
 they the beehive ^{of water} in which they are ^{to be placed} ~~maintained~~
 after previously boiling, may stand ^{upon a} ~~upon~~
 table or at ^a distance from the fire. they
 should be taken out of the water as soon
 as the heat pervades every part of ^{them} ~~it~~ in which
 state, the whole egg is alike soft and easy of
 digestion. Eggs may be preserved during
 long sea voyages by being covered with tallow
 or bees wax first melted, and applied over
 them by means of a feather.



Of Condiments.

The same bountiful Creator who added
the pleasures of music to the commonness
of the ear, and of Colours to the commonness
& necessary uses of the eye, hath added
~~increased the pleasures of taste by fur-~~
~~ished us with certain substances to~~
be mixed with, or added to our aliments,
which are intended to ^{promote health by} increasing the plea-
sures of taste.

They have been divided into saline,
sweet - oily, milky, ^{alliacious} ~~effervescent~~, &c.
~~fat and mucous~~, & gelatinous - Aromatic
and acid.

They act in the ^{stomach} following
ways: 1 They stimulate the tongue equally,
and thus add to the pleasure of eating.
2 They ^{stimulate the salivary glands & thus} increase the quantity of saliva,
~~thus~~ assist digestion.

3 They stimulate the stomach, and

V 7 It is possible some of them may by
combining with Aliment cause them
to evolve a greater quantity of nourish-
-ing that is ~~exactly~~ extracted from
it by the common powers of Dige-
-tion.

We reason ~~for~~ incorrectly when we suppose
that this depends upon the greater
dissolving power of the ~~juices~~ of the animal
juices of the stomach ^{it} enables them to
extract the whole of the ^{matter} ~~solid~~ ^{from} the ^{up} activity of
from the meat. ~~It~~ ^{It} does not afford
the gastric juice in the human stomach

No 25

Perhaps we mis take the effort for $\frac{1}{2}$ cause
in Carni Animals. May be ~~there~~ a it may
be their strength enab them to do & not
the flesh strength.

thus increase the secretion of gastric
 juice, ^{& thereby facilitate digestion.} and they likewise increase the
 activity of the stomach, and enable it
 more easily to throw the aliment when
 digested, ^{this the pylorus} into the bowels. —

4 They produce ~~excitement~~ ^{and strength} excitement through
 the whole system, from its sympathy
 with the sense of taste & the stomach, ~~and~~

5 ^{Some of them} They retard digestion, ^{and in so doing} ~~this is being~~
 they perpetuate the influence of Aliment
 in the stomach in imparting vigor to
 the whole system. They likewise prevent
 in this way the frequent recurrence of
 hunger at times & in situations in
 which it is not convenient or practi-
 -cable to gratify it.

6 Some of them ~~and~~ convey nourishment into
 the body. V

V The use of its being its being sprinkled upon
~~that~~ ^{those} parts of the sacrifices which were eaten by
the priests under the Levitical law in order to
render them palatable & wholesome. It is so
essential in diet in some countries, that it
is common to denote the whole of a man's
subsistence by the word salt alone, as we do
by the word bread. ~~alone~~. Thus in some
parts of India a man who is supported by
the business of a friend is said "to owe his
salt to him". The same expression is used in
Holland in speaking of a speaking of a depen-
-dant who is fed by the hand of charity. Even
among the Romans it was considered so im-
-portant a part of diet, that when a man
received an office from the Government he
was supposed to receive the means of purcha-
-sing his salt. - hence the origin of the word
Salary, from ~~the word~~ sal, which signifies
salt. These facts are mentioned to show that
the use of salt is nearly as universal as bread,
and almost as necessary for the subsistence of man.

The saline Condiments are chiefly Com-
mon salt and Airts.

The Use of Common salt with ani-
mal ~~and~~ food, and with certain Vegeta-
bles is ancient and Universal. ^{It} ~~promotes~~ ^{promotes} the
dissolution of ^{fresh meat} ~~the food~~ in the Stomach,
~~and is not~~ but ~~when it~~ ^{retards} the
digestion of ^{salted} meat. ~~that has been preserved~~ ^{the latter}
by it. It is for this reason that ^{it} is
preferred by Sailors, Soldiers & Labourers.
By its durable Stimulus in the Stomach,
it imparts Strength to the whole System.
When used in excess, ~~or~~ without Vegeta-
bles it brings on ~~now~~ several Diseases
particularly the Scurvy. It is used not
only in its simple State, but combined

V And with ~~certain~~ ~~the~~ ~~flesh~~ of the flesh
in the form of ham - and what is called
meats ~~to~~ that is ~~the~~ beef's tongue.

mailed, shed.

with of certain fish, as ~~herring~~ - sprat
~~oyster also with in the form of a head - salting~~
 and anchovy, in which state it increases
 the appetite, ~~for~~ as well as helps the
 digestion. It should be taken in larger
 quantities with fish, than with the
 flesh of land animals, upon the account
 of its more rapid tendency to putrefac-
 tion in the stomach.

Vinegar is used chiefly as
~~of the acids~~ ^{as} a condiment ~~and~~
~~vinegar, lime and lemon Juice - Tranna-~~
~~-tes and substances~~ in the United States,
 with all those vegetables impregnated
 with, and preserved by it which are known
 by the name of pickles. Much has been
 said against them ~~as being~~ ⁱⁿ ~~and as~~ ⁱⁿ
~~a~~ ^{the} ~~poor~~ ⁱⁿ ~~system~~ ⁱⁿ ~~treaties~~ ⁱⁿ upon the means
 of preserving health. When substituted
 for Aliment, they are certainly hurtful,

✓ and other acids more expressly as
a Condiment than any Nation in
Europe.

✓ Acid Condiments are useful in
lessning the Viscidity of fish, and of
young animals. They likewise obviate
flatulency, and hence their Utility in
Salads of all kinds.

and particularly in bringing on diseases of
the stomach, but when used sparingly,
~~and so~~ as barely to ~~improve~~ be tasted in
our food, they are, ~~useful~~ if not useful
certainly inoffensive. Besides vinegar,
the juice of Lemons, limes, ^{Tamarinds} and the Tau-
-matas are sometimes employed as acid
and condiments. In Germany & France
they use the juice of the grape before
it is ripe, or a little fermented, is used in-
stead of the juice of those ~~less~~ tropical
fruits. It is not ~~only~~ only acid, but
gently astringent, and very grateful to the
taste. ✓ The Germans use vinegar &
Sugar-honey-syrup and various kinds
~~are pleasant~~ ~~condiments~~, and add
to the nourishing qualities of Aliments
as well as improve their taste. When

taken in a large quantity, they retard digestion, and finally impair the health of the stomach. The celebrated Dr Richard Baxter has left it upon record that his constitution was ruined when a boy by his mother feeding him upon meat meats, or aliments overcharged with

sugar. When taken fasting, ^{it has been} found to prevent and destroy ^{the} worms in children.

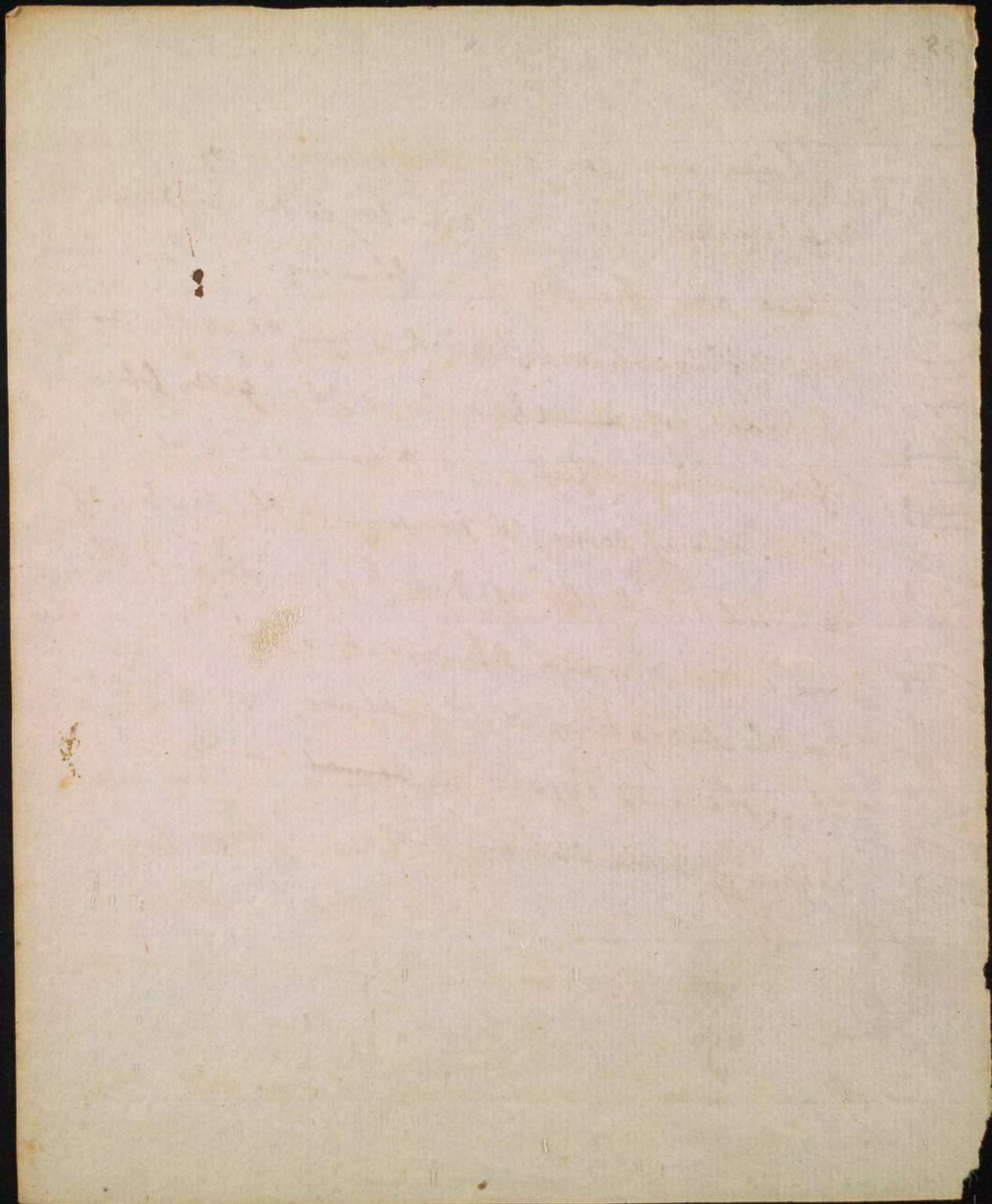
The oily Condiments include ^{the} Sweet Oil of Olives & almonds - Cream - Butter, - ~~lard~~ and the fat of every animals as the hog, the sheep, the goose and several kinds of fish. They all facilitate the digestion ^{of} the Aliment with which they are mixed - they retard digestion, and hence the Utility of one of them, that is butter with fish, and they are very nourishing. Dr Clark found by his experiments ^{that the fat of those} ~~upon the~~ animals which are used in diet afforded

✓ They are all emaciating in a great degree, and when taken in large quantities ^{they} retard digestion, and weaken the stomach. -

three times as much nourishment as
~~this~~ the lean parts of this flesh. Pork
is more nourishing than beef, only from
its containing more fat.

The Condiments which are composed of
the different preparations of milk are ^{swiss} ~~cream~~,
sour cream, - evaporated milk, that is
the ~~case~~ oily and cheesy parts of milk de-
-prived of its whey - the curds of milk -
salted butter - and all the different kinds of
Cheese. ^{Cheses} That of the ~~best~~, the Shapsago
and ^{old} ~~the~~ English Cheese are the most
stimulating. They should therefore be
taken in but small quantities. They
are ^{all} apt to create indurc Costiveness, and should
be taken sparingly by persons who are subject
to that state of the bowels.

✓ There are certain substances of a gelatinous nature which are employed as condiments. These are chiefly the shavings of hartshorn - the Ithivolla - Marsh - and the whites of & yolk of ~~an~~ eggs, and the jelly obtained from calves feet and other animal substances. They serve to improve the taste of several articles of diet by purifying them, and mixed with aliments of all kinds, they are lubricating to the ~~stomach~~ mouth and throat - and afford a ~~small~~ moderate degree of nourishment.



V The Alliacious Condiments, are Onions, leeks,
 Garlic ^{and} ~~and~~ Chelots. ^{both raw,} They are used ^{in this}
 and after undergoing the action of the fire.
 They are A relish for them is the effect of
 habit, and hence like ^{other things} ~~all the artificial arti-~~
~~-ficial articles~~ of not originally agreeable to
 the senses of taste and smell, they ~~become~~ take
 a stronger hold of the appetite than such
 articles as are originally agreeable. They
 are ~~great~~ gently stimulating, for which
 reason they have been resorted to, to oppose
^{debilitating} the effects of heat and labor in all coun-
 ties. ^{all ages & in} William Temple says the pyramids
 of Egypt were built by them, that is
 the tools of the ~~men~~ ^{men} who were employed in
 these stupendous monuments of human indus-
 try were ~~supported by their being~~ ^{enabled to perform their toils by} ~~the~~ ^{large}
 the strength they derived from those active.

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they lived

Condiments. The Jews while ~~prisoners~~ⁱⁿ in Egypt
~~in~~ ~~desired~~ ~~them~~ were enabled to ~~bear the~~ ~~these~~
perform the severe exertions of their task
masters in a hot sun by feeding upon the
same Articles. It is to be lamented that
they are likewise moderately non-
-rishing, and they retard ^{the} digestion of all
the Aliments that are taken with them. ~~Apartida~~
~~belongs to this Class of Condiments.~~

~~Related to these Alimentary Condiments~~
is The gum Apartida contains Arts chiefly
by its Stimulating power upon the ~~Stomach~~
-tum. It is ~~used~~ ~~chiefly~~ ~~by the~~ sometimes
~~used~~ ~~to~~ ~~with~~ Beef rubbed upon the grid-
-rions, or upon the dish in which beef
Stakes are placed. It is likewise used with
some kinds of fish. our Grose in his speaks
of a nation of India who abstain wholly from
animal food, and fermented & spiritous liquors,
that mix this Condiment with all their

the first of these is the fact that the
the second is the fact that the
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the ninety-ninth is the fact that the
the hundredth is the fact that the

Aliment. This health & perspiration he says smell of it.

It is somewhat remarkable that whole Nations have been distinguished by their Attachment to some one of the Condiments that have been mentioned. The Germans prefer vinegar, - the French Sugar, - the English butter, and the Spaniards Onions, above all other Condiments in their Aliment. The Americans more wisely make use of ~~all~~ ^{all of} them all.

The aromatic ~~and acid~~ Condiments are very numerous. They are parsley - sage, thyme, sweet marjoram - Dill - Aniseed & fennel seed, tansy - ^{mustard} - Saffron - cloves - mace, Cinnamon ~~and~~ Nutmegs, and ~~and~~ some others. The Germans use a great quantity of the aromatic herbs with their Aliments. The kitchen of Frederick the 2nd of Prussia was ~~was~~ so filled with bottles containing them, that it resembled

✓ They are particularly useful when
mixed with what are called the cold
fruits. They retard the ~~rapid~~ progress of
fish, and the ~~crush~~ ^{a rapid} motion to putrefaction
"

Recipe for Curry -

an Apothecary's Shop. They improve the
~~flavor~~ taste of Aliment, increase the
discharge of saliva, and help digestion by their
stimulus upon the stomach. useful in
West India - why?

The Acid Condiments are ^{chiefly} allspice -
black and Cayenne pepper - Capsicum, An-
iseeds - Cardamom ~~seeds~~ & Coriander seeds - ginger
mustard and horseradish. They are used
chiefly with food that is ~~diff~~ hard of diges-
-tion both of a vegetable & animal na-
-ture. ^{mouth, throat} They stimulate the tongue, ~~favor~~ do
Stomach, and through ~~their~~ means act
powerfully in giving tone to the whole
System.

all these Condiments are ^{generally} sometimes
taken simply, but they are sometimes mixed.
~~as in Salmagundi - ~~tea~~ and ~~consist~~ of these acids~~
and Sugar are mixed in certain preserves,
Butter and Sugar in certain Sauces, and

[The text on this page is extremely faint and illegible, appearing as a series of light-colored lines across the page.]

Salt^{ed} meat - pepper - and certain other spices
in Sausages. —

~~Just~~ To the Condiments that have been menti-
-oned it remains only to add one which
^{does} ~~do~~ not belong to any of the former heads,
and that is Ice. It is used to ~~cool~~ ^{cool cer-} ~~gross~~
^{drinks and} ~~the~~ ^{their} ~~drinks and~~ ^{drinks and} ~~to thus to improve~~
their taste in warm weather. It is likewise
used in substance mixed with Creams. In
^{this way it} ~~It~~ is ~~sober~~ grateful to the tongue, - cooling
in the mouth, - and sedative through the
medium of the stomach to the whole body.
Ice Creams are ^{generally taken with.} ~~unsafe~~ ~~upon an empty~~ ^{the latter}
~~stomach~~ ^{after} other Articles of Diet, in ^{which}
case they are inoffensive, if ^{given} ~~taken~~ in a mod-
erate quantity, but ~~when taken upon an~~ ^{colic}
empty stomach, they are apt to create ~~spasms~~
Dysentery, and ~~often~~ to become the exciting
cause of fever. —

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There are certain Condiments which
are used to improve the taste & stimu-
-lating qualities of the liquors we take with
our food. These shall be taken notice of
hereafter. —

~~Among~~ There are ^{two} ~~three~~ articles of which
compose a part of the Diet of the inhabitants
of the United States, which though not
~~entitled to the property~~ ^{of any nourishing}
qualities, yet from the matters that
are mixed, ^{or} ~~and~~ taken with them, are
entitled to a place in this history of
Aliments. They are Tea and Coffee.
A Revolution has taken place in the ~~use~~
~~use and~~ Discours of Europe & America since
the introduction of these Articles into
general use. ~~They have spread the Consump-~~
-tion of

Eccentric food and ardent spirits, but
 they have ^{they} ~~not~~ ^{transferred} ~~been~~ in many
 instances the diseases of the blood vessels
 into the nerves. From the general use
 of tea, the hysterical disease which was
 once confined to high life is now often
 seen in the kitchen, and in the huts
 of poor people. But let us state the facts
 fairly that relate to this subject. The
 most of the diseases which have been
 ascribed to tea and coffee might perhaps
 be ascribed to their being taken too strong,
 or too often, or by themselves, without
~~and~~ a due mixture of sugar & cream
 or milk, or bread and butter ^{with them}, whereby
 they are left to ~~act~~ ^{an} act with ~~an~~
 undiluted force upon the nerves of

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

~~There are many articles of~~
~~the body. There are many other thin-~~
~~-nesses, diet which if taken without~~
~~the Meat - Cheese and butter if~~
~~taken by themselves~~ ^{in excessive quantities or} without bread,
and many other articles of diet if
taken without their ^{customary} ~~appointed~~ mixture,
would be equally hurtful to the
Stomach and the ^{in excess or} whole system with
tea and Coffee taken ^{by themselves}.
In this favor, let us recollect ^{how} ~~that~~
much they have ^{increased} the Consumption of
animal food and Ardent Spirits, and
^{how} ~~to the~~ ^{to the} ~~loss of~~ ^{loss of} ~~innocence~~ ^{innocence}
^{added greatly to the} ~~pleasures of~~ social
life and convivial pleasures. ~~A~~ ^{of} ~~habit~~
~~and a lot seldom sit down at a~~ ^{fondness}
for tea and Coffee and an undue Attachment
to the knife and fork, and the bottle

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are rarely to be met with in the same person. ^{From their gentle & grateful stimulus} They are peculiarly agreeable & useful in the following states of the system.
 1 After great fatigue of body and on mind. ^{From the influence of Coffee} Upon the latter, it has ~~been~~ ^{is} called by the french "Caféin intellectuel," or intellectual drink.

2 After a full or oppressive meal. Coffee is usual resorted to by the french to relieve this oppression.

3 After intemperance in drinking. ^{Coffee is used with}
 4 After taking Opium. ^{It removes the} ~~the~~ ^{the} ~~best most~~ ^{best most} ~~effects to~~ ^{effects to} sickness and languor which sometimes follow the exhibition of that medicine.

5 In a depressed state of the mind from any cause.

6 In cases where wakefulness is required

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either for study, or attendance upon
sick people. They should be made a
little stronger than usual for this
purpose.

7 In cases where it is necessary to resist
moderate degrees of heat or cold. Tea
revives both the body & mind when
depressed by the heat of a long sum-
mer day, and Coffee fortifies the
body against the ordinary cold of
winter. I know a ~~country~~ physician
who ~~was once~~ ^{described as} ~~had~~ ^{lost} his ~~practice~~ ^{substance}
from cold by drinking a
pint of strong Coffee when he was
obliged to expose himself by a long ride
in the country in ~~cold weather~~ ^{the}
~~winter months~~ cold weather.

The black teas, as they are called,
particularly the Soucheong are the

best for ~~drinking~~ breakfast. The
 more cordial tea are best ~~drinking~~ calu-
 = cated to restore the body and mind
 after the business of the day is over.

That Coffee is best which has been
 well dried by age, and moderately roasted.
 The Arabians and the Turks prefer it
 bruised, instead of being ground, before
 they boil it. It is most cordial when
 taken without sugar. The Turks
 use it only in this way. —

I have been thinking of you
 and wondering how you are getting on
 I hope you are well and happy
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines
 I am sure you will be glad to hear from me
 I have been thinking of you very much
 and wondering how you are getting on
 I hope you are well and happy
 I have been very busy lately
 but I have managed to find some time
 to write you a few lines
 I am sure you will be glad to hear from me
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 but I have managed to find some time
 to write you a few lines
 I am sure you will be glad to hear from me

In treating of the
 The salubrity, of Aliment ~~and Drinks~~ ^{as}
~~depends upon~~ we must not pass over ~~the~~ in
 silence the nature and Condition of the Vessels
 in which they are preserved, and prepared for
 use. They are preserved in a sound state in
 wooden vessels provided pains are taken to keep
 them clean, by washing and exposure to the
 air. The vessels employed in Cooking, or
 in subjecting food to the action of fire are
 made of earth, and metals. ^{Of the former,} ~~the common~~
~~earthen ware is not liable to be acted upon~~
~~by acids nor oils.~~ glass, and China ^{are} ~~also~~
^{sometimes employed, but they}
^{is offensive to food} are too brittle and expensive
 for this purpose. The common earthen
 ware of our Country when properly made ⁱⁿ
 should be preferred to them. ~~It is not~~ The
 preservation of lead which is mixed with it,
 is not liable to be acted upon by acid, nor
 fat substances. of the metals, ^{silver, tin,} ~~silver~~ copper,

✓ it a portion of the Copper, or by ex-
-posing the Copper to the action of the
substances which dissolve it, ^{renders} ~~produces~~
the persons who use it liable to ^{diseases} ~~to~~
of the stomach bowels and nerves. When
the hurtful effects of ^{both tin and} ~~mercury~~
~~mercury~~ ^{are} ~~is~~ ^{impelled by necessity to}
Copper vessels are much refined by ^{not} ~~any~~
~~being the~~ permitting elements to remain
in them after they are taken off the
fire, and ^{exposed to} ~~exposed to~~ the air. The in-
-fluence of the air in aiding oils & acids to
act upon Copper is evident from those
parts of them on being most affected by the
Copper which come into contact at once
with the air & the Copper. Simple water is
Vessels of Iron should be preferred to all other metals
for the purpose of cooking. The parts ^{of them} which
are dissolved by acids or abraded by the matter
which ^{that} are put into them are inoffensive, &
sometimes useful to the body. To obviate =

in preparing food for the table. ^{where}
~~Tin & Iron~~ are sometimes employed in the
silver ^{is} ~~is~~ costly, & it should not be
employed, used for this purpose, for ^{the} ~~with~~
the alloy ~~which~~ of Copper which is mixed
with it, ^{by dissolving} ~~is~~ ^{is} soluble in acids and oils, and
is renders it an unsafe implement of cookery.

~~Copper is usually employed with a thin
covering of tin over it for culinary purposes,
but the tin soon wears away, and by
mixing with the food produces the diseases of
the human stomach, bowels & nerves.~~

Tin when pure is insoluble in acids and oils,
but as it is ^{sometimes} ~~generally~~ mixed with more or
less ~~of~~ lead, copper, or arsenic all of which
are acted upon by both those substances, it
should not be employed as a culinary vessel.
^{It is best} ~~It is best~~ ^{useful}, or unsafe ~~when used as a~~ ^{by a} ~~kettle.~~
Copper is usually employed with a thin
covering of tin over it for culinary purposes,
but the tin, ~~when~~ admitting it to be pure,
soon wears away, and by ~~mixing~~ ^{carrying} with

✓

= the taste, or Dark Color which Iron
reps^{es} imparts to certain Articles, the inside
of them is sometimes lined with Zinc.
which

It remains now to mention the
liquors we take with our solid Aliment.
A relish for them, is an instinct of
Nature. They serve many valuable pur-
poses in the body. ^{They dilute} ~~as diluting~~ to
a certain and necessary degree, the saliva
and gastric juice, ~~as~~ ^{obviating} and washing
~~acrimony out of the body, and~~ and thus
^{aid} ~~aiding~~ them in disposing the food. They
likewise obtain acrimony, in the first
passages, ^{or} and wash it out of the body
through the passages ~~opened for it~~ ^{such} in the
kidneys or the pores of the skin, and
many of them ^{as are of a} ~~being~~ ^{as are of a} brownish-
ing creature, and assist in the support
of health and life.

~~Then~~ the liquids we take with our food
are water - ~~Beer wine & spirits~~ and fermented
liquors and Ardent Spirits.

Water has been divided into ~~spring pumps,~~
~~and rivers or flowing water~~ - from all its
sources when alike ~~pure~~ pure, possesses the
same qualities. It may be known to be
pure from the facility with which it dissolves
soaps, and boils vegetables - from its having no
smell, and no peculiar taste, - from the difficulty
with which it freezes; - from its being soon hot
and ^{soon} cold, from the healthy ^{inexp} state of the animals
that drink ^{it}, and its from the number of fish
that swim ⁱⁿ it, and from the verdure, &
fertility of the shores that are washed by it.
It is necessary to its ~~own~~ being perfectly agree-
-able that it should contain $\frac{1}{20}$ part of

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Atmospheric Air and a Cubic inch of
 Carbonic gas in a 100 parts of the water.
 Boiling it deprives it of these Airs, and ren-
 -ders it less pleasant to the taste. It is from
 the want of ^{or deficiency} these Airs, that Snow water is
 so insipid, though it possesses otherwise
 all the properties of pure water. Rain water
 is most pure in the Winter & Spring
 from the Air in those seasons being most
 free of exhalations and ^{other foreign} ~~the gas and vapors~~
 of ~~insoluble~~ matters.

What are called hard waters are made
 so by the solution of certain Salts, earths
 and metals in them. This is not the place
 to mention the means of detecting the presence
 of those matters, but it will not be foreign
 to the design of this work to remark that
 many ^{tribe} more have been ascribed to ~~these~~ ^{them}

The water is
 than are just. Where ~~they are~~ not offen-
 -sive to the taste ~~or~~ from any of its
 mixtures, nor impregnated with putrid
 matters such as the excrements from privies
 and certain manufactures in large cities,
~~they~~ ^{it} seldom does any harm. It is certain
 the gravel and stone are ~~seldom~~ ^{not often} met with
 in Countries in which water are drunk
 that abound with Calcareous earth than
 in Countries in which this is not the
 case. I ~~was~~ ^{have} happily for ~~my~~ ^{my} habit
~~discovered~~ ^{Should the substances that have}
 which are contained in hard water,
 been mentioned, be originally offensive to
 the system happily for ~~us~~ ^{the} habit of using
 it ~~so~~ after a while, deprives ~~them~~ ^{it} of
 these its hurtful qualities.
 Water taken very cold, in a large
 draught when the body is heated by labor.

~~is~~ produces many sudden deaths
every year in the United States, and where
this is not the case, it ~~can~~ ^{often} induces acute
and Chronic diseases. To prevent these fatal
and disabling consequences from ~~the~~ drink-
-ing water in ~~the~~ under the circumstances
that have been mentioned, let ^{cold} no water
be drunken while the body is proter-
-naturally heated, but if the intensity of
thirst forbids the delay that is necessary
for this purpose, let the vessel ^{provided}
it be made of ~~a~~ metal (or of an earthly
material) be grasped closely with both
hands for two or three minutes.
~~A portion of the heat~~ This practice
will act in two ways. It will carry
off a portion of the heat of the body,

40

and it will convey it into the water,
and thus ~~before~~ remove the or ~~the~~ ^{should}
dangers of drinking it. If this direction
^{impose} ~~lay~~ too long a restraint upon the
thirst, let the hands and face, or
feet, or all of them be washed with
the cold water before it is tasted. A
large portion of the heat of the body
will thus be carried ^{off,} ~~out of~~ it, and ~~one~~ ^{the}
principal ~~of the~~ cause of the ~~the~~ bad effects of
the cold water by that means be
~~obviated~~. ^{when heated by labor}
~~travelling~~. It is because horses ~~delt~~
their feet in ^{the stream of} water ~~before they drink~~
^{into} ~~into~~ which they pass before they drink,
that they are never injured by it, and
it is ~~from the~~ Pump water is equally
^{when drunk by}
inoffensive, ~~to~~ horses from the practice

previously
of throwing buckets full of it over their
bodies when over heated by labor, ^{it coupled with sweat} before
~~they are permitted to taste it.~~

It is a common mistake to suppose
that Cold Water in order to allay thirst,
in ~~warmer~~ and Cool the body in warm
weather should be very cold. ^{So far} ~~It often~~
from having those effects, it often excites
both heat and thirst. ^{Labor} Any intelligent
house Carpenter in Philad^a has discovered,
^{out} by long and the experience of ~~many~~
~~from laborers~~ ^{confirmed his discovery} ~~has proved that labor~~
is ^{lost most easily} sustained in the hottest weather by
drinking water that has stood for
sometimes in the sun 30 as ^{arguing} ~~as~~
nearly the temperature of the air. ~~It~~
^{By allaying} ~~It allays~~ thirst when ~~is~~ taken in

of the

this way, ~~and~~ ~~from~~ it saves much ^{walking or} time which is often lost in ^{walking} to a distant spring or pump for fresh supplies of Cold water.

It is a common practice with some people to take a draught of Cold water just before they go to bed, or as soon as they get up in the morning. This practice probably originated in intemperance, & has ~~been~~ ^{been incorrectly} ~~adopted~~ ^{adopted} from ~~as a belief in~~ ^{that it conduces} ~~its conducing~~ to preserve health. The reverse of this ~~is true~~ ^{It may be practised for} ~~years without producing~~ ^{years without producing} ~~any bad effects,~~ ^{any bad effects,} ~~but finally it has been found to~~ ^{but finally it has been found to} ~~dilute the~~ ^{dilute the} ~~stomach, and to impair the appetite~~ ^{the stomach, and to impair the appetite} ~~and digestion.~~ ^{and digestion.} ~~It may be practised~~

V Water constituted the only Drink of
the Roman Armies while traversing
the hottest Countries, and by this
a Cause to be mentioned hereafter they
were preserved from all those Diseases
which afflict or destroy so great a
proportion of the Armies of modern
nations.

~~for years~~
~~without food & exposure without producing~~
~~these effects for years, but for people fi-~~
~~nally the stomach seldom fails~~

~~water is sometimes a~~
~~nutritious~~
Certain matters are sometimes added
to water such as milk - ^{Vinegar,} molasses - and
Symples of different kinds, ^{and fixed air in} in order to render
what is called Artificial Seltzer ^{water.}
~~it more exhilarating as a drink. They~~

They render it more pleasant, and add
to those qualities in it which enable it
to support animal life. Vinegar & V.

Simple as water appears to be, it
contains some nourishment. This is
inferred from life continuing much
longer in Animals that have access to
water, ~~than~~ without food, than in those
that are deprived of both of them. -

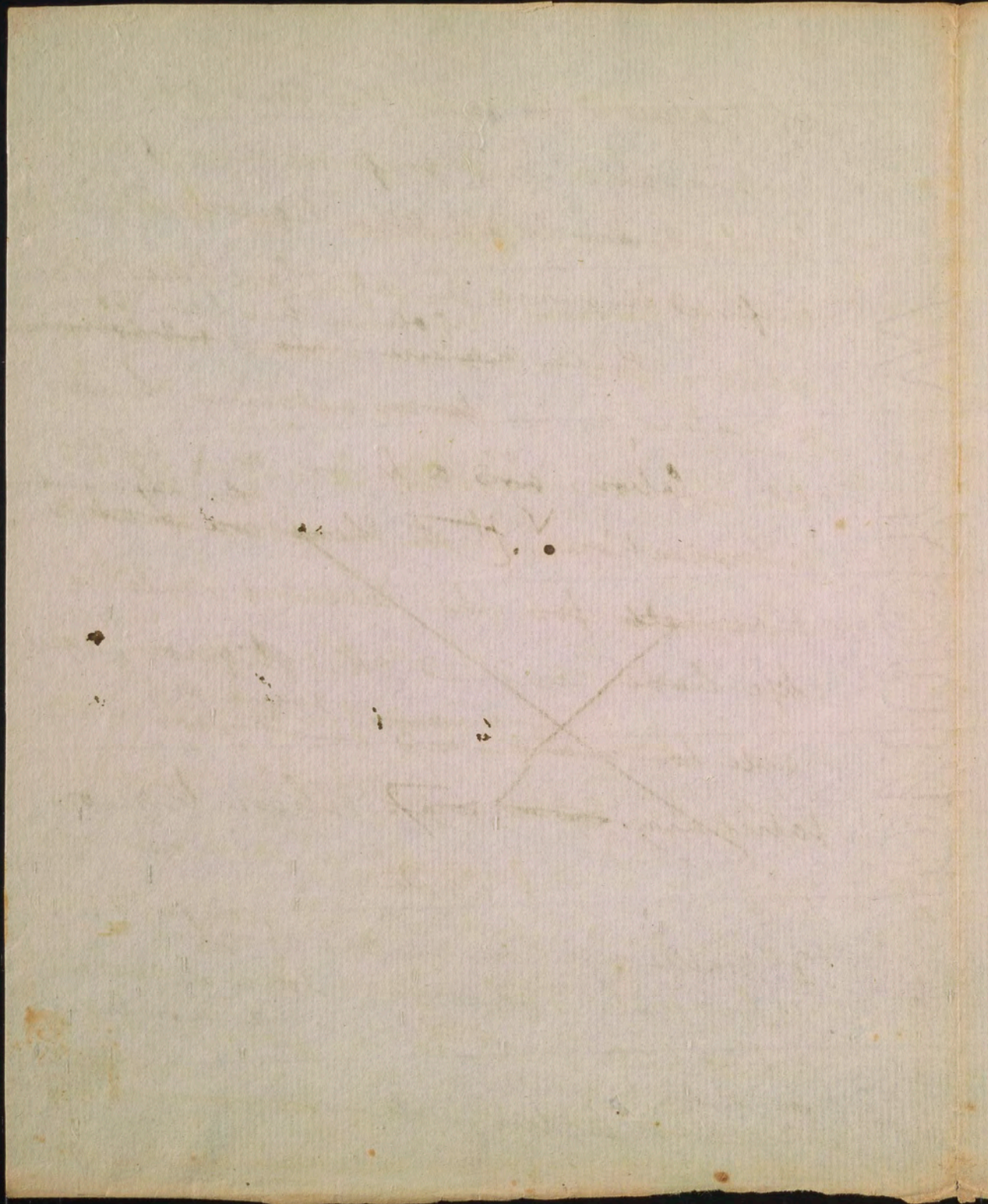
See Poets as well as physicians have
lavished their praises upon this beverage

V But loud and universal as the praises of water
have been, it is ^{not} always the most proper drink
with our meals. From its promoting the
digestion of food more rapidly than any
other liquor, it disposes to the frequent
returns of appetite, and from its preparing
us ^{of food,} ~~thirst~~, it prompts to take a greater
quantity, ^{than the system requires.} to supply its place. ~~Therefore~~
~~we soon, and from the insipidity of~~ ^{water}
~~to the taste, &c.~~ It is from these effects
of water that persons who drink it alone
with their meals, ~~are~~ have sometimes
been remarked to be great ^{feeders.} ~~eaters~~. For
those reasons, and from the insipidity of
water to the taste, other liquors have been
resorted to as more salutary and
agreeable.

+ ^{note} This has been proved by many
experiments.

of nature. It was the first drink of
 man, and it is preferred in infancy &
 childhood, ~~and~~ to all other liquors. It is
 preferred likewise in all those states of the
 body in which ^{violence} ~~nature~~ ^{has been done} ~~suffers~~ ^{violence}
 to nature, as in ~~fevers~~ extreme thirst,
 from labor, ^{or} a fever, and after
 intoxication. ~~That these are habits~~
~~that tell for the habits of civilized~~
 life have rendered other liquors ^{more} ~~use-~~
~~ful~~ ^{and in many} ~~some of them~~
~~salutary.~~ ^{instances more} These liquors
 are + a note

Dr Beattie mentions in one of his letters
 that he once dined with Dr Johnson at Sir
 Joshua Reynolds, and that he ate more meat
 at than he could eat in ten meals. Dr Johnson
 drank nothing but water.



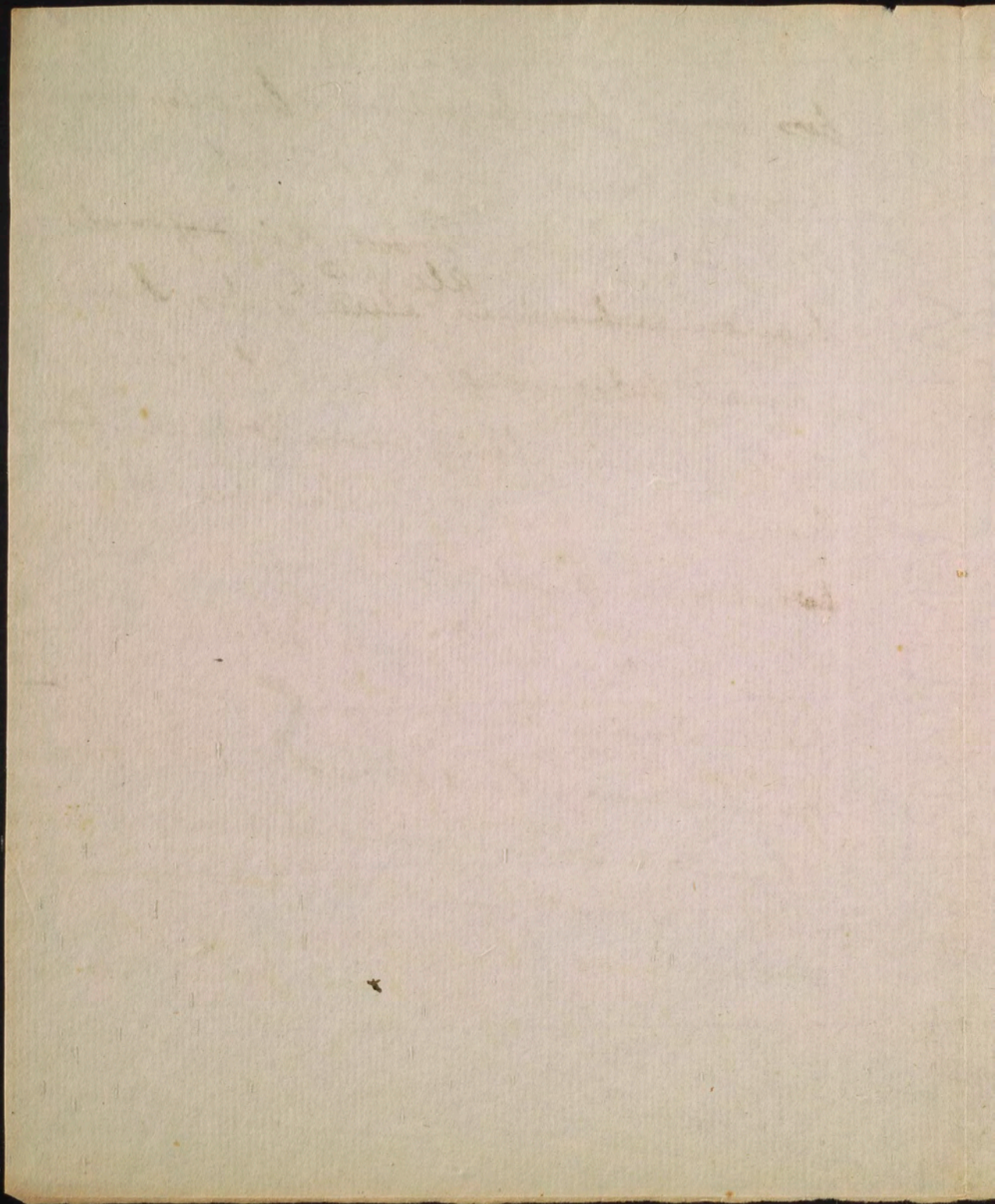
fermented and distilled. The former
include beer. Cyder - Perry - and all the
different kinds of wine. The latter con-
-sist of ~~strong~~ Ardent Spirits. I shall
make a few remarks upon each of
them.

them.

All the grains called Cerealia afford
by ~~wash~~ brewing - an ~~enriching~~ ^{enriching}
a fermented liquor known by the
name of Beer, but the grain ~~is~~
most commonly used for this purpose
is Barley. ^{the} Beer made from it con-
-tains a large quantity of saccharine
matter and affords a good deal of nour-
-ishment. It is upon this account,
meat and Drink to the poor people in
some Countries. It is ~~the~~ ^{an excellent} ~~the~~ ^{beverage}

~~for~~ Drink for labourers, but too nourish-
 ing for persons who lead indolent and
 sedentary lives. ~~That kind of~~ ^{all and}
~~liquor which is called~~ Porter has
 several Advantages over the common
 table beer in being more cordial, ⁱⁿ
 Stomachic, and in retaining their
 wholesome Qualities in warm weather.

They may be drunk diluted with
 water during the summer months, ^{or}
^{one part of either of them may be mixed}
~~or they may be exposed with from~~
~~three to 4~~ ^{parts of} ~~porter & is then mixed~~ ^{all}
 with 8 of water and half a pint of honey
 or bawls or half a pound of Sugar and
 a little ginger, and put into bottles where it
 undergoes a fermentation & is fit for use in
 24 hours.



Cyder contains a good deal of saccha-
-rine matter blended with a pleasant
acid, and diluted with water. It is
gently stimulating & nourishing, ~~but~~
when mixed with water it makes
a pleasant Summer Drink. It has
been said to be hurtful to persons
predisposed to Gout & Rheumatism.
This probably depends upon its acid,
~~which~~ for upon eating rich acid
but iron in it which obtains this
acid, it is said not to ^{write these} ~~have the best~~
ing diseases, but to prevent them.
Two barrels of Cyder ^{fresh from the press,} boiled into one
and kept in a Cool Celler for
2 or three years make a pleasant

liquor which has obtained the name
of Pomona wine. It may be drunk
by itself, or diluted with water.

which
the wine is obtained from the grape
has as many names as it ^{qualities &} has
native countries, as they all contain
more or less saccharine matter - an
acid - a spirit - an unfermented matter
called must, ^{diluted with} water. They have
been divided into strong - Sweet - acid
and mild. To the first belong Madeira,
Sicily - Less Gayal - Teneriff & Lisbon.
To the second such as ^{such as they} Port -
and Malaga, - into Acid such as
Port - Claret, Burgundy - and ^{or} mild such
as Moselle - Rhineish and hock. They

V Qualities according to their age. They
~~should more~~ The older they are, the
less easily are they decomposed by
the stomach. The strong wines are
in their most perfect state, when they
are between six and seven years old,
they at which time they should

be kept in bottles. ~~not more than~~
~~they should be taken sparingly in the intervals~~
~~two or three glasses of them~~ Intricate must
~~be~~ when swallowed slowly &

are stimulating or and nourishing according to the greater or less quantity of saccharine matter - and most different they contain. They possess very different

These ~~strong~~ wines are ^{the less impaired by} most ~~drinks~~ ^{too} the climate of the United States than any others, ~~wines~~. They may be taken with water, or by themselves. The best wines - three glasses of them should be taken with a meal upon - ordinary occasions in an undiluted state, but a less quantity - fruit or crust of bread a pleasant supper. - ~~wine~~ should be preferred. The Acid and Astringent wines are most agreeable when taken with sugar ~~or~~ water. They are improper in all gouty and Rheumatic constitutions. ~~##~~

There are certain imitations of the product of the vine which are used as substitutes for them. These are

for $x^y \log =$ of the
I know a contrary opinion has been en-
-tained ^{and fermented liquors} of Condiments. Food has ^{been} supposed
to be wholesome in proportion as it is simple,
and taken without Beer or Wine.
or prepared without seasoning. But this
opinion is contradicted by ^{the analogy of the water of baptism &} the experience of all
ages. ~~The simple state of the food is not a~~
~~single token~~ ~~to the general tenor of the creator's design.~~
The tongue is an important ^{Lord} ~~part~~ in nature
and the instrument upon which the
stimuli act ^{that} which support animal life.
as they act ^{in extent} ~~in the~~ upon this organ to
every part of the body. This is denoted by a
single experiment. ^{One quarter of an ounce} ~~One wine glass~~ when
sipped, and thus permitted to lie for sometime
upon the tongue will produce intoxication. ^{that} ~~rather~~
is enough to ^{produce} ~~do so~~ have that effect when taken
into the stomach. But this stimulates upon
the tongue is a pleasurable one, even pleasant when
moderate is friendly to life and health & life.

Light & shade - without in light & figure
nothing is independent, in and nothing phases
alone in the works of the ~~creator~~ nature.

Contrasts & mixtures form all that is beautiful
and agreeable in the works of nature. They
condiments appear to be intended to act upon
in the full ways. They act upon the tongue.
This organ is

mend, melleghin and what are called
 home made wines. ^{mixed} ~~the two former~~ ^{first two}
~~is~~ made of ~~very~~ one part honey,
 with four parts of water fermented with
 aromatic herbs, or herbs. ^{It is a cooling} ~~the melleghin~~
 and pleasant summer drink. melleghin
 is made of one part honey & two of water.
~~It is less agreeable~~ It is too viscous to be
 taken in a large quantity. ^{amount of} ~~all that~~
 the soft summer fruits of our country,
~~the~~ afford by fermentation ^{with the} ~~where a~~
 addition of a small quantity of sugar,
 and a little brandy, are agreeable liquor
 resembling the wine of the grape.
 That from the Currant is generally
 preferred to all others. [It is prepared
 in the following manner.

V Meals, and always in a diluted state.
To remove the debility and fatigue which
occur at those times, they are generally
offered to visitors, but a Cup of Chocolate,
a biscuit ~~or~~ a sweet cake, or a little
fruit should be preferred to them. ^{Dr} The
Franklin when a young man surprised
his ~~brother~~ fellow labourer in a printing
office in London whom "he saw swallowing
porter in the intervals of their meals
by eating occasionally a roll of bread.
"You exhilarate yourselves (said he
to them) by taking the spirit of grain
only, I am refreshed and strengthened
by its substance." —

several of
To all ~~Beer~~ and the liquors
all ~~the~~ ^{beers} ~~beers~~ that have been named,
~~are improved~~ by certain additions are
sometimes made in order to improve
them. ^{which have been} flavor or taste called Condiments.
These are ^{wormwood} ~~leaves~~ - ginger,
rosemary - ^{wise} ~~root~~ - ~~leaves~~,
Indian Acker - hurbane & even Opium,
but they all detract from their virtues,
and some of them render them hurtful
unfriendly to health & life.

All these fermented liquors should
be taken sparingly in the intervals of V

Distilled Spirits are obtained from all
 the grains & particularly from Rye,
 from wine, ~~and~~ but chiefly from
 the Sugar cane. They contain a small
 quantity of Acid, and a large quantity of
 Spirit ^{water} diluted with water. They do not
 contain a particle of Suckarine matter;
 of course they do not afford any ^{more} nourish-
 -ment to the body than water. They
 are hurtful in every form in which
 they are habitually used, whether alone
 or in what are called Things, toddy or
 grog. They are least hurtful in punch,
 for in this liquor, the Acid of the limes
 burns the Spirit, while the water dilutes
 it, and the Sugar supplies it with a small
 portion of nourishing matter. ~~This is~~ I
~~and~~ have endeavoured in another work,

+ This thermometer was published by
the author in the Columbian magazine
in the year

to point out the evils which these baneful
-ful liquors have brought upon the body
and Soul of man. Had I a thousand
pens, and each of them furnished with
all the powers of ancient & modern elo-
-quence, they would not be sufficient to
describe in suitable language the numerous
and ~~awful~~ diseases of and Vices that have
followed their use in every part of the
world. + I shall only subjoin here a
concise ^{amount} ~~view~~ of ^{this} ~~the relative~~ influence upon
^{health} ~~mental~~ and morals with a relative view
of other liquors upon the same objects in
~~the form of a~~ upon a Scale which I
have called a moral & physical Thermo-
-meter. + —

V from a tincture of it being absor-
-bed by the Lymphatics of the Stomach
into which it descends in large quan-
-tities - it injures the voice when used
in the form of Snuff by obstructing
the nose -

Related to distilled spirits in its pernicious
 influence upon health is that noxious
 weed called Tobacco whether used in smok-
 -ing, Chewing or in Snuff. ^{It impairs}
 It depraves the ^{weakens the digestive powers,}
 the Appetite - induces tremors - ^{impairs}
 the memory, brings on low spirits, ^{tinges the}
 skin of a yellow color, ^{disposes to Consumption}
 it produces emaciation of the body, and

from the debility and thirst which follow
 its use, it often leads to intemperance
 in drinking. - ~~But~~ But its evils extend
 further - it ^{it improves a} ~~it improves a~~ ^{it improves a} ~~it improves a~~
 the persons who use it, a clamorous ~~the~~
 the voice by ~~obstructing the nose, and~~
 tyrannical Artificial want, ^a
 to sometimes It makes large invasions
 - ring a common life upon property, and
 it is contrary to that cleanliness of
 person and apartment which ^{if} ~~an~~ ^{an} ~~an~~
^{with} is closely allied to ^{with} ~~with~~ ^{with} ~~with~~
 Virtue. Citizens of the United States

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the tumbler of brandy ^{bottle} & the tumbler
with the tumbler and the flask of brandy,
with ^{prompt} ~~opinion~~ and Authority from
the hands of your Children! Save the
human figure & character in the present
generations that are to follow us from
of your posterity from those ~~interdicts~~
~~those~~ the vices that impend them from
the habitual use example of their fathers!
and ~~entire~~ goes to health and life. They
are greater enemies to our Country
than the late vices of the British Council,
^{or} ~~and~~ the decrees of the French Emperor at
Milan. -

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5
Nor is ^{it} any objection to the utility
~~or necessity~~ of Rules for the preserva-
-tion of health and life that many
persons feel no disagreeable effects
from ^{the daily} transgressions of them for
years together, as far as they relate
to Aliments and Drinks. ~~to~~ The
patient submission of the Constitution
to ~~these~~ these Acts of Violence that
are committed upon it, no more
prove them to be innocent, than
a quiet conscience is a justification
of an immoral life. Such persons
usually snap, to use an English
phrase, that is, die suddenly, ~~for~~
or they perish in by bubble diseases,
or pass a sickly & miserable old age.

without considering what an immense number of people are made poor by them.

I am ~~more~~ further that age, ^{occupation,} season, climate, ~~occupation,~~ ~~latitude~~, idiosyncrasy, & the disposition of ~~various~~ parts of the body to perform vicarious offices for such as are ~~weakly~~ predisposed to disease by ^{and above all habit, combined} debility to disease, ~~also~~ exert a powerful diversion from the uniformity of ~~influence upon the~~ operation of diet and drinks upon health and life, but after making the largest allowance for them all,

I believe with the exception of one person in twenty the relations of Cause and Effect ^{by means of impression} in the ~~of stimulus~~ human species are nearly as uniform as they are upon vegetables and inanimate machines. A definite ^{portion} ~~force~~ of heat and moisture ~~is~~ necessary to healthy vegetation, and a ^{or precise} definite force of wind, and

V ~~As~~ in its ^{obviating} ~~influence upon~~ the uniform
effects of diet and drinks upon the body,
has its limits, and where it is ~~inoffensive~~ ^{disease this},
~~it excels~~ ^{renders thin}, or bad qualities of inoffensive,
it is ~~often~~ because they are opposed by coun-
-teracting impressions. Thus the Indian
suffers less than a civilized man from a
gluttonous meal of animal food, because
~~he stops~~ ^{at first} he throws off its impression
first by fluss and afterwards by the exertions
of hunting and war - thus too the day la-
-borer suffers less from drinking a bottle
of spirit in a day than a person who
~~passes~~ ^{passes} his time in a sedentary
employment, because he ~~counteracts~~ ^{opposes to it}
the counter stimulus of labor.

VI ~~bringing~~ ^{the members of a family, friends &c}
~~to meet together~~ ^{to meet together} ~~two or three times a day~~
~~and thereby to~~ ^{of type} ~~encrease knowledge and to pro-~~
~~duce social happiness.~~ ^{domestic and} and 3 ~~that~~ ^{that are} ~~calculated~~
~~to remind us of our dependance upon the~~ ^{constant} ~~Gods of~~
Being who created us, and who daily supplies us
with our daily bread, — Johnson's Greek

Water produces the greatest possible effects
upon a mill and a boat, that are com-
-parable with ^{this} ~~the~~ preservation of ~~them~~
~~them~~ from injury or destruction. The
same thing is true, with respect to the
agency of Aliment and Drinks upon
the body. — Even habit ^{to} ~~the most~~ powerful

2 These remarks being premised I
pass on to mention certain general
rules upon this subject
which apply nearly alike to a great
majority of men kind. Before we enter
upon them, it may not be amiss to inquire
why are we subject to the ^{daily} ~~frequency~~ returns of
Appetite, and why is not one meal sufficient to
support our bodies for a week, a month, or a
longer time? I answer ~~for this~~ ^{we are subject to}
the daily returns of Appetite, ^{for the} ~~for this~~ ^{following} ~~reason~~ ^{reason}
purposes of ~~the~~ ^{they} ~~increasing~~ multiplying and
circulating the pleasures of the table. ~~2d~~ ~~3d~~
2. ~~They impose~~ ^{They impose} ~~the~~ ^{the}
~~perpetual knowledge~~ ^{perpetual knowledge} ~~and~~ ^{and} ~~total~~ ^{total} ~~appetite~~ ^{appetite}

7 V The Appetite is sometimes an unsafe
Guide in regulating the Quantity of
Food, inasmuch as it ~~is~~ often
^{exceeds} ~~disproportioned~~ to the Strength of the
digestive powers, and the exigencies of
the System. It is ^{a good practice} ~~wherefore~~

always to Abstain from eating
where there is the least ^{hesitation} ~~doubt~~
Dilettation
whether enough has been taken.

As in morals he that Doubteth,
and acts, is condemned, so ^{he} that
Doubts and acts, never fails to suffer
by it.

2 The ^{Taste} ~~Appetite~~ is likewise an unsafe
Guide in determining the Quality of our
Aliments, for we sometimes seek of
them as are agreeable to the ^{fine} ~~Taste~~ that
sense, produce disagreeable Effects in

54.
55.

✓ The of food and Drinks should regulate
4 ~~this~~ Quality, & Much less of meat should
be eaten than of vegetables, and less of
bread, than of fruits. ~~As~~ While two
pounds of Beef, or Mutton, and the same
quantity ^{bread} of ~~vegetables~~ ^{table} ~~drinks~~ are suffi-
-cient for a labourer for four or twenty
hours, a Persian four times the quantity
of ~~simple~~ ^{garden} water vegetables with simple
water may be taken ^{by him} with safety in the
same time. A Persian, Chardin tells
us, feels no inconvenience from eating
thirty pounds of Water melon in a day.
5 Fire and fat influence the quantity
of food necessary for the support of
animal life. A large ^{body} ~~man~~ requires
more to nourish it than a small one,
(and fat people, from the less diameter

the system stomach.

By even the cordial reception which the stomach gives to certain aliments is not always a sign that they are ~~un~~friendly to health, for we sometimes observe head-ache, Thirst, and ~~erectile~~ ~~erectile~~ feverish symptoms induced by aliments that ~~now~~ excite no sensation in the stomach. — turn back to 4

or capacity of their blood vessels, require
less Aliment than ^{such as are} ~~persons~~ under
equal circumstances.

A mixture of ^{which disagree} ~~containing~~ Aliments ~~agree~~ with each other
in the Stomach ~~better than others.~~
Should be avoided. ~~the fish and flesh of~~

land and water Animals are often
indigestible when taken together. - the
same thing is true of milk & fish. It

is probable all ~~the~~ Aliments & Drinks
have the same Affinities ^{or repugnance from} to each other

that are observed in chemical bodies.

They can only be ^{found out} ~~discovered~~ by experience,
but this discovery will amply reward the

labor in making it.

Great Advantages will arise from making the
7 ~~the same for everyone~~ ~~the~~ the
principal meal every day upon one Dish. The
Appetite for food should be regulated by

a note to the of Scripture

+

55.1

the same laws that are imposed upon
the sexual Appetite. ~~They are both~~
variety in the objects of both, leads to
excess, and does equal violence to the
constitution. How often do we observe
the appetite
~~person~~ apparently satisfied with one
dish, excited afresh by a new one, and
when indulged, the ~~consequences of a~~ ^{language and its con-}
sequence in indigestion and plethora
brought upon the system. This ^{limitation} ~~singularity~~
of the appetite to one dish
is ~~far from~~ ^{only} ~~extended~~ ^{only} is meant to
extend ^{only} to animal food. A variety of
various vegetables may be taken with
it with safety and advantage.

5

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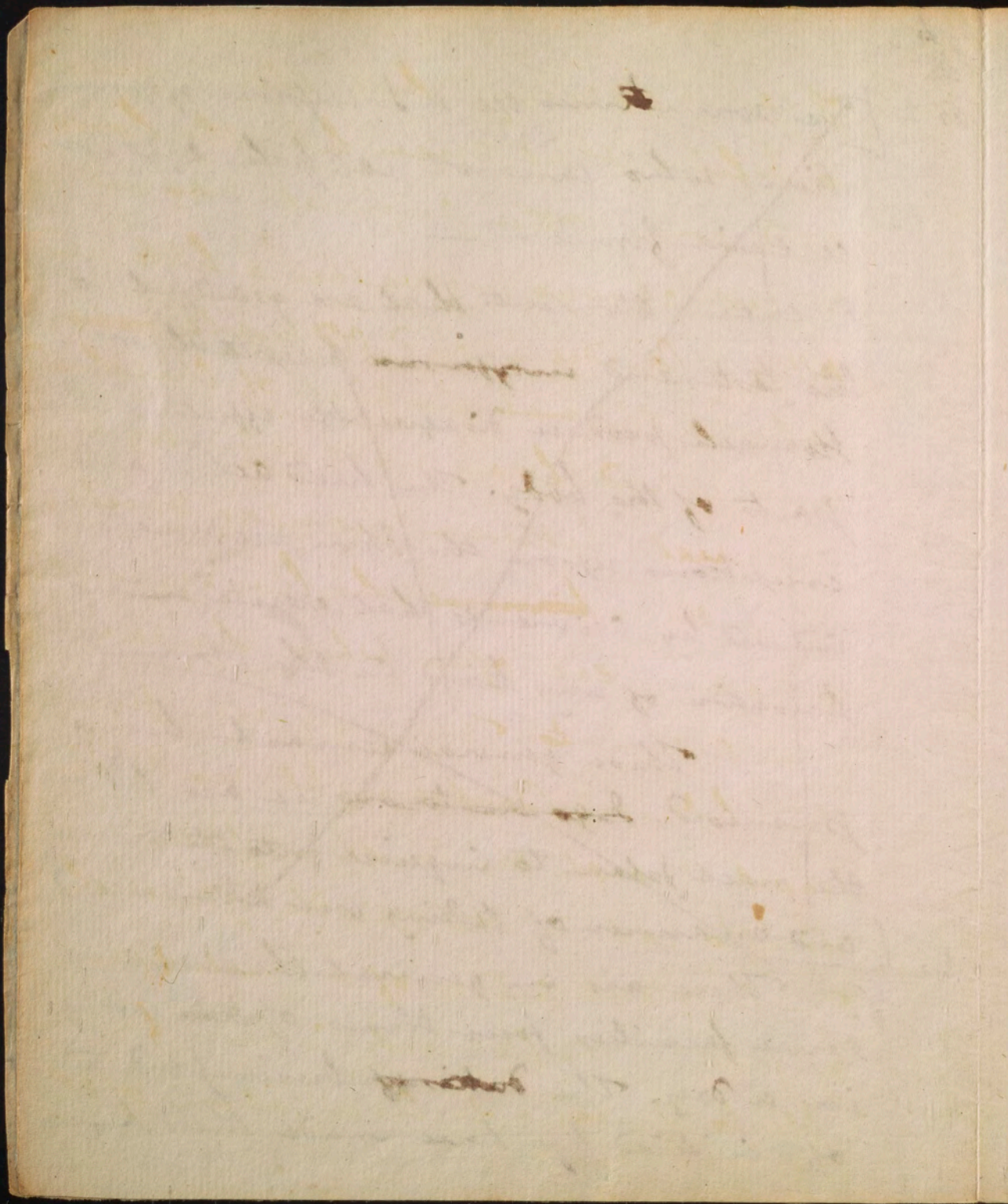
55.2
5.

55.2 There sometimes see a disposition of persons
-times who cannot eat fish, eggs, or
certain fruits. —

5 certain Aliments that are grateful to
the taste, and ~~inoffensive~~ acceptable to the
Stomach produce disagreeable effects in other
parts of the body. The head ach, and
eruptions upon the skin are sometimes
induced by Aliments that excite ~~micro~~
Irritation of any kind in the Stomach.

These general remarks being
premised, ~~I go on to say~~ we are led in
the next place to inquire into the times
(and manner of taking our Aliments).

g. There are in general three, and in
some families four times of ~~take~~ eating
in a day. The ~~daily~~ business & duties
of civilised life have made these times



of eating necessary, but there is reason
to believe that man like the horse,
and some other animals was intended
to eat always, or rather a little, and
often. Children and old people ⁱⁿ ~~but~~
whose the ~~same~~ instincts of childhood
are revived, bear with difficulty the
intervals between regular meals.
The Indians likewise who live agreeably
to nature, eat often when they abound
with aliments. They never rise from
their beds ~~or~~. Bartram tells us in his
travels through the Southern States in
order to eat in the middle of the night.
The constant action of a small quantity
of food in the stomach is more favoura-
ble to the agreeable circulation of the

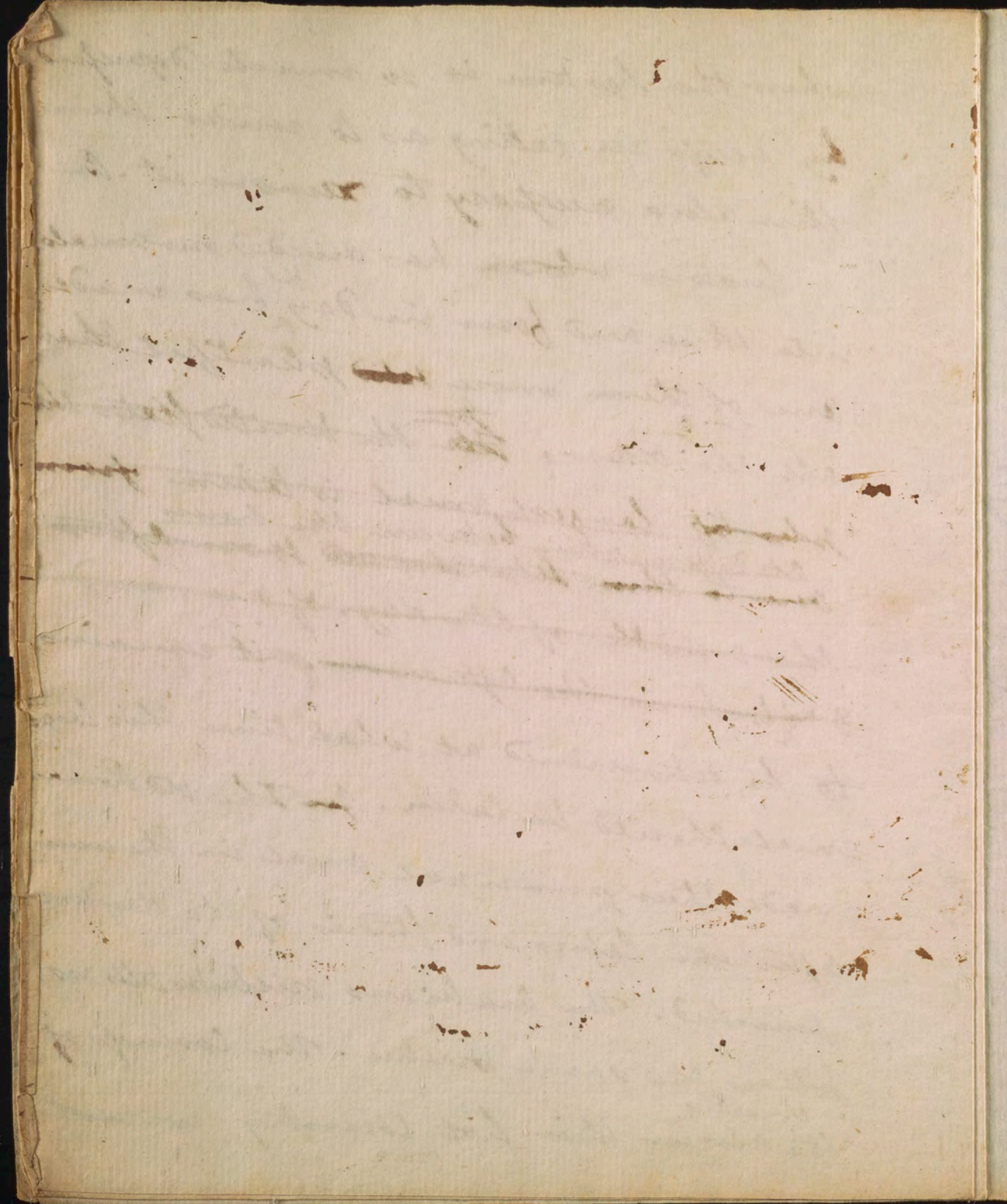
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54
blood, and the agreeable excitement of
the nervous system, and of course more
favourable to the good health, than
the alternate languor & excitement
in which follow an empty stomach,
and a full meal. A small quantity
of food moreover when digested is more
easily thrown out of the stomach than
a large quantity, and in a much shorter
time. I suspect the general &
intemperate use of ardent spirits,
opium and tobacco has arisen from
the ^{long} intervals between meals which
make their stimulus necessary to
supply the absence of the stimulus
of food. It is true they are often called
for after a meal, but it is only

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When the system is so much depressed
by sleep in eating as to render their
stimulus necessary to remove it. But a

Custom ~~which~~ has divided our meals
into three and four in Day [&] has made
one of them more ~~rich~~ plentiful than
all the others; ~~In the United States this~~
~~the largest meal is taken from~~
~~at different times between the hours~~
~~one to three. It is taken soon after~~
~~the middle of the day. of course and~~
~~3 o'clock in the afternoon. it remains~~
to be determined at what time this large
meal should be taken. ~~In~~ The old Romans
made this principal meal in the evening
after the labors and studies of the day were
finished. The Arabians likewise tell us,
follow the same practice. The coolness of
evening
the air in this hot country revives the



Appetite, and renders society ^{less} ~~more agreeable~~
disagreeable from a number of people
crowding around a table. ~~It is~~ The
rest which follows a full meal in
the evening ^{The Dismissal from} ~~favours the~~
~~mind~~ ^{from the} ~~of the~~ ^{mind} ~~gives~~ the cares of the day
gives a higher tone to convivial
pleasures in the evening than at any
other time, and those we know ~~add to~~
are calculated to promote the health of
the body. The rest moreover which
follows this meal tends very much
to promote digestion. Of this experience
furnishes with many proofs. Ever have
experiments been wanting to establish
this fact. — Dr. Harnisch.

✓ While not ~~favours~~ or accelerates Digestion,
it is certain Sleep has a contrary ef-
fect, but it does not follow from
this Circumstance that food is less
healthy upon that account. Perhaps
it may be more completely digested by
its longer detention in the stomach,
and there can be no Doubt but its
influence in keeping up the actions of
life in the sleeping state is greater when
confined in the stomach, than when
diffused through the intestines in the
form of Chyle. Sleep after a full meal
should be carefully avoided, for the sto-
mach when unduly distended pursues

✓ But should the influence of habit con-
 -trive to render the middle of the day,
 or ~~was~~ two or three hours after it, the
 time for eating the principal meal, it
 will be proper to avoid labor and exercise
 soon after it. If sleep should be indul-
 -ged after dinner, it should never be
 in a horizontal posture. Aristotles we
 read slept ^{after eating a full meal,} but it was only
 in an arm Chair. The Portuguese ^{it down} often
 upon the floor and
 sleep with their arms supported by
 two chairs, and their backs, by a wall
 after dinner. — Care should be taken

upon the adjoining viscera, and upon the
surrounding crura, and thus disjunct to Colic
& apoplexy. -

✓ 9 meals, whether they be one, two or
more in day, should ^{generally} be taken at
the same hours. Nature expects them,
and useful absorptions in the animal
economy are destroyed when she is
not gratified. This is most proper &
most practicable in the morning of
life. -

When persons sleep in this sitting posture
that the neck be perpendicular with the
body, otherwise the ^{preparation} ~~circulation~~ of the
blood will be obstructed to, or from the
brain. — V

16 It is a common practice in some
parts of the United States to take a glass of
wine ~~or~~ with bitters before dinner. The
practice is a bad; ^{inasmuch as it} ~~the~~ ^{it} excites the
Appetite beyond the digestive powers of the
Stomach, ~~and it~~ ^{disturbs}.

17 ~~It is a common~~ ^{that is taken} ~~at~~ ^{the} ~~table~~ ^{is} ~~to~~
drink The lips ^{is} drink ^{at} ~~with~~ ^{our}
food before we have finished the animal
part of our meals, the better. It acts
by ~~stimulating~~ if it be wine, or malt liquor,
by stimulating the Stomach, and thus
prompting to eat more than the system

[Faint, illegible handwriting]

The first of these is the fact that the
 government has been unable to secure
 the necessary funds to carry out its
 policy of non-interference. This is
 due to the fact that the government
 has been unable to secure the necessary
 funds to carry out its policy of non-
 interference. This is due to the fact
 that the government has been unable
 to secure the necessary funds to carry
 out its policy of non-interference.

the Drink
 requires. If it be more simple, and taken
 in a large quantity, beyond the proportion
 to solid food formerly mentioned, ^{it} ~~the~~
 dilutes the saliva and gastric juice so
 as to weaken their dissolving power, &
 has by ^{elevating} ~~heating~~ the food ~~separates~~ from
 the surface of the stomach removes it
 beyond the action of the latter, and ^{finally} ~~of~~
 hurries it into the intestines before it
 is completely digested.

12 There have been disputes among physicians
 whether food should be taken hot or cold.
 It is peculiar to the human species to
 take it in the former way. Even the
 warmest nations prefer it ~~after it has~~ warm
 from the fire. It is certainly more
 savoury in this state, and if it be more
 easily digested when cold than hot, it

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its being having been kept
must be ascribed to ~~the inefficiency of time~~
longer before it is eaten.
~~upon which it was connected~~

13. The practice of Carving or cutting certain
kinds of food ^{at table,} has an unfriendly influence
upon health. Most of people sit down to
dinner in a state of debility from labor or
hunger. To contend with a tough goose or
turkey or a piece of disjointed meat ^{in this situation} for
~~less~~ ^a quarter of an hour wastes the re-
~~main of strength brought to increase the~~
weakness of the body, and thus to impair
the strength of the digestive powers. It moreover
exposes the persons who have thus lost
fifteen minutes in Carving to the necessity
of swallowing this food without masticating
it sufficiently in order to avoid the suspicious
singularity of eating alone. I say nothing

a note

+ The late Anthony Benezet once went into the house of one of his brothers at the hour of dining. He asked him to sit down and dine with him upon some poultry which was placed ~~on~~ upon the table. "What! said he would you have me eat my Neighbours?" Had it been served in another form, so as to have concealed its shape, he would probably have dined upon it without asking any questions.

here of the *Voischief* done to table Cloaths,
 and dishes by this practice, nor of the
 remains of savage taste which is discovered
 by sitting down to devour our Domestic
 Animals in the same shape in which
 they have pleased us with their beauty, or
 innocence while they were alive⁺. The Chinese
 and the French nations always conceal the
 shape of the Animals upon which they feed
 by their modes of cooking them, ~~that it is~~
 that it is ~~often~~ difficult to ~~tell~~ ^{what} ~~clap of~~ ^{to}
 tell ~~to what~~ ~~clap of~~ whether they were taken
 from the Air or the earth. Hence the Knife
 is in part banished from the tables of France
 and the ~~fork and the~~ ^{Spoon supplies in a great measure} ~~as well as the Knife~~
~~under~~ the want of both the Knife & fork
 in China. In some parts of Sweden and
 Denmark Mr. Linn tells us in his ~~northern~~ ^{hungarian}

14 V There should frequent changes, or
a ~~regular~~ rotation in the use of the
different kinds of aliments particularly
of flesh. This is necessary to keep up
the pleasure of eating, and perhaps the
salutary effects of food. It is from that
disposition which the taste has to be
satiated with one kind of meat, that
the beef, mutton and hog butchers,
seldom live upon the flesh they respective-
ly prepare for the market. The distaste
and even aversion which some men
express for particular meats arises
frequently from their having been fed
when children exclusively upon it.

Excursion to those northern Countries ~~as~~
their Dishes of animal food ~~are~~ are cut up
~~and~~ Carving is performed by Servants
before they are brought to table.

✓ 15 To persons Great benefit will arise to
health from ^{the} occasional ~~for~~ ^{or a total Abstinence from it} diminution
of the customary quantity of our food. ~~It~~
^{this rule} should be practiced at all ~~to~~ times when we
~~are a little indisposed - in extreme weather~~
~~weather~~ at the following times and under
the following Circumstances.

1 When the body is a little indisposed
from cold, or any other cause. The
celebrated player m^r. Maclin who lived to
~~over 100 years of age~~ never had a fit of
sickness during his long life which ex-
-tended to nearly an 100 years. ^{made} He presented
the means that procured him this exemption
from attacks of disease were always to
abstain from ~~too~~ food as soon as he

V The Indians always fast in their light
indispositions. To allay that uneasiness
in the stomach which arises from
constipation they eat a little of the root
of the Spikenard which keeps up a
gentle action in the stomach, without
imparting any nourishment to the body.

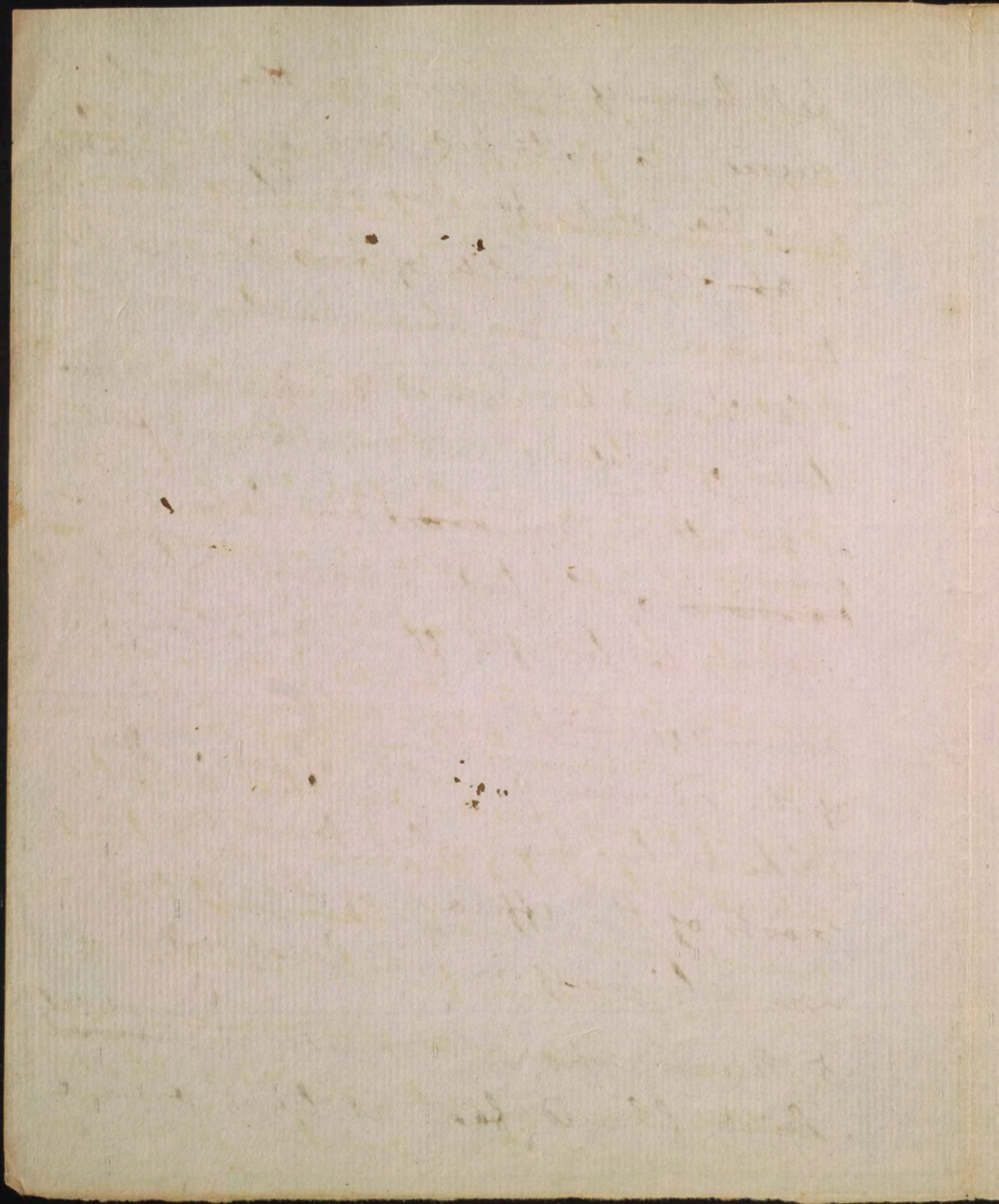
felt himself indisposed in the smallest degree - to go to bed - and to drink diluting tea only for two or three days. ^{Indian practice} ✓

2 Also the quantity of food should be lessened in very warm weather.

3 It should be lessened during the prevalence of violent and malignant fevers.

4 In all sudden ~~and~~ and laborious enterprises ^{excitations} of the body or mind which are intended to be of a short duration, great advantages will arise from a diminution of the ordinary quantity of food. Dr Jackson has furnished some striking proofs of the efficacy of this practice upon himself in the West Indies.

5 Persons who live much in ^{convivial} ~~riotous~~ society should fast at least once a



among the Catholics
week. The custom of dining upon
fish every Friday is a good one, ~~and~~
~~depends the value of the system~~ It is a relative
abstinence, for fish contains much
less nourishment than flesh. Sir John
Simpson mentions an instance of a great
^{in London} feeder who lived much in company who
dined upon a single egg every Sunday.
Dr Franklin made it a ^{rule} ~~practice~~ to
while he resided at in France as Mi-
-nister from the United States, to refuse
all invitations to dine out on a certain
day of every week. On that day he
retired to his bed chamber, and lived
entirely upon weak ~~green~~ tea. He
gave as a reason for this practice, that
it "was necessary to give Nature a
holiday once a week in order that
she might clean out her streets." In

✓ 6 Abstinence is highly proper before
persons submit to ^{such} ~~and surgical~~ ^{Difficult} Surgical
Operations as will probably be followed
by an inflammatory fever. ~~as~~ The Indians
live sparingly before a battle by which
excess wounds not made in vital parts
heal much sooner than the wounds
of Soldiers in the armies of civilized
nations. -

Abstinence

all cases of ~~fasting~~, liquids of some kind should be taken. The system is more benefited by it, than when the sensation of thirst is added ~~to~~ to that of hunger. The system suffers less likewise from the temporary abstraction of food than it does of drinks. — V

Nature it is said abhors a Vacuum. It is equally true, she is unfriendly to ~~some~~ too much Uniformity in eating & drinking whether it relate to quantity or quality. However ~~that~~ necessary this ^{be} away to cure diseases, it does not always prevent them. In the intercourse with the world which business, travelling, or social pleasures ~~renders~~ ^{renders} necessary for most men, it is impossible to carry a

[illegible]

pair of Scales, or a measure to determine
the quantity of ~~the~~ our food; for which
reason it will be necessary to avoid ^{rigid} too
habits in eating and drinking. To inure
the system to eat of every thing, and at
any time will be useful in the present
state of civilized society. A little exposure
and then ~~too~~ is often as necessary and
salutary as a little diminution of our
food and drinks. — It fortifies the system
against diseases from causes over which
we have no control such as the
vicissitudes of the weather, ~~and~~ It gives
a gentle fillip to nature, and ^{prevents her} ~~prevents her~~
~~her operations~~ forgetting to keep all her
passages open, and ^{all her} wheels in motion.
The late Dr Cleghorn, ^{of Dublin} belonged to a Club
that dined together once a fortnight.

V Short, he does not know all the
household pleasures of eating who does
not depart now and then from his
ordinary habits as they are related
to the quantity and quality of his
food, nor more ~~than~~ he knows
not the pleasure of a feast, who fares
sumptuously every day.

~~The Doctor~~ For two or three days after
 at which he ate and drank a little more than
 meeting this Club he used to say he
 he did with his family &
 enjoyed better health and spirits than he
 did on any of the intermediate days.

The fresh supplies of ~~of~~ health & spirits &
 even the blossoming color which many
 people bring home with them from
~~short summer~~ short visits to their friends
 whether in town or country, and in some
 instances ^{down to} ~~from~~ mineral springs, and the
 sea shore, I believe are often the effects
 of ~~fresh vigor~~ being in the calm in this
 systems being removed, by the ^{additional} ~~increasing~~
 quantity of food and drinks which
 friendships & ^{disposed} ~~disposed~~ ~~hospitality~~, or company ~~disposed~~ ~~them~~
 them to take; or forced upon them. In
 15 Food should be well ~~medicated~~ before

V education in youth, and by a
few resolute experiments in every
stage of life. —

17 There is in some persons what is called
 Idiosyncrasy, that is an inability to eat
 or drink ^{or to digest,} certain aliments and liquors
~~that without being injured by them~~
 which are ^{pleasant} ~~inoffensive~~ to ~~common~~ the
 taste, and inoffensive to the stomachs of
 other people. ~~It is common~~ This
 Idiosyncrasy is ~~either~~ hereditary - native,
 or acquired. It is ~~proper~~ common
 to humour it, and where the ^{Disorder} ~~Antipathy~~
^{Antipathy of} ~~between the taste & stomach & aliments~~ is to those
 Aliments & Drinks ^{only} that are seldom met
 with in company, no inconvenience
 can arise from so doing, but when it
 extends to ^{various} ~~several~~ and to common articles
 of ^{Diet} ~~it~~, the Antipathy should be conquered.
 This has often been done by a proper

18 Food should be well masticated before
it is swallowed { The following experiment
will show the necessity of attending to this
rule.

Many diseases of the stomach arise from
the neglect of this rule. It is often indu-
ced by ^{loss of} ~~poor~~ an appetite - by ^{by} extreme hurry of business, - ^{by} Absence
of mind, ^{by} Conversation and ^{by} Drinking ~~etc.~~ ^{beverages.}
The last ~~subject~~ ^{produces} ~~is~~ ~~the~~ ~~effect~~ ^{has} this effect
by obliging persons to swallow their food
before it is masticated ~~in order~~ to order to
express their thanks to the person who
drinks to them. The practice of drinking

It is a pleasure to me to hear
that you are well and happy
and that you are still in the
enjoyment of the same.

Many thanks for the letter
of the 10th inst. It is the
first I have received from
you since we parted. I am
glad to hear that you are
well and happy. I am
also glad to hear that you
are still in the enjoyment
of the same. I am
very much interested in
you and hope to hear from
you again soon.

health moreover proves hurtful to young people (who are modest) by disposing them ~~if they~~ not to drink at all, rather than ^{interrupt} ~~publicly~~ half a Dozen or a Dozen persons who are intent upon eating by rudely addressing them ^{in an} ~~with a loud~~ elevated tone of Voice, with good wishes for their health.

In order to masticate food properly, the teeth should be in a sound state. ^{not only to health but} Their importance to Speech, & Beauty, ~~as~~ ~~well as to health~~ ~~should have~~ renders a knowledge of the method of preserving them an essential part of ~~the~~ ^{the} present work. I shall therefore deliver a few directions for this purpose.

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means for preserving the teeth &
supplying the ~~def~~ want of them.

1 Let the milk teeth (as they are called) or the
first teeth, be extracted as soon as they
become loose, in order to enable the second
teeth to project in a straight & regular
manner. If ^{the least} disposition appears
in any of them to grow irregularly,
let them be kept straight by means of
gold wire, or by drawing the adjoining
milk teeth before they are loose. Crooked
teeth, like deformity, in other parts of the
body, always dispose to disease. They ^{are} ~~generally~~
^{apt to} ~~very~~ decay soon, while regular and
handsome teeth are generally lasting.

2 In young people we sometimes observe
a single decayed tooth, with every

✓ ~~for~~ In this respect the teeth resemble
= like plants which suffocate & destroy
each other: if they grow ^{near each other} too ~~close~~ closely.
The decayed tooth

Other tooth, sound and beautiful. This
~~solitary decay~~ ^{decay in this} tooth is produced by
the pressure of the adjacent & surrounding
tooth ^{upon it} being so great as to deprive it of
its nourishment. ~~It~~ ^{it} should be extracted
immediately or the decay will ^{spread} ~~reflect~~
its disease ~~at~~ ^{through} the whole jaw. I am indebted
for this article of advice to the late Dr. Spence
who confirmed the truth of it by the practice
of many years.

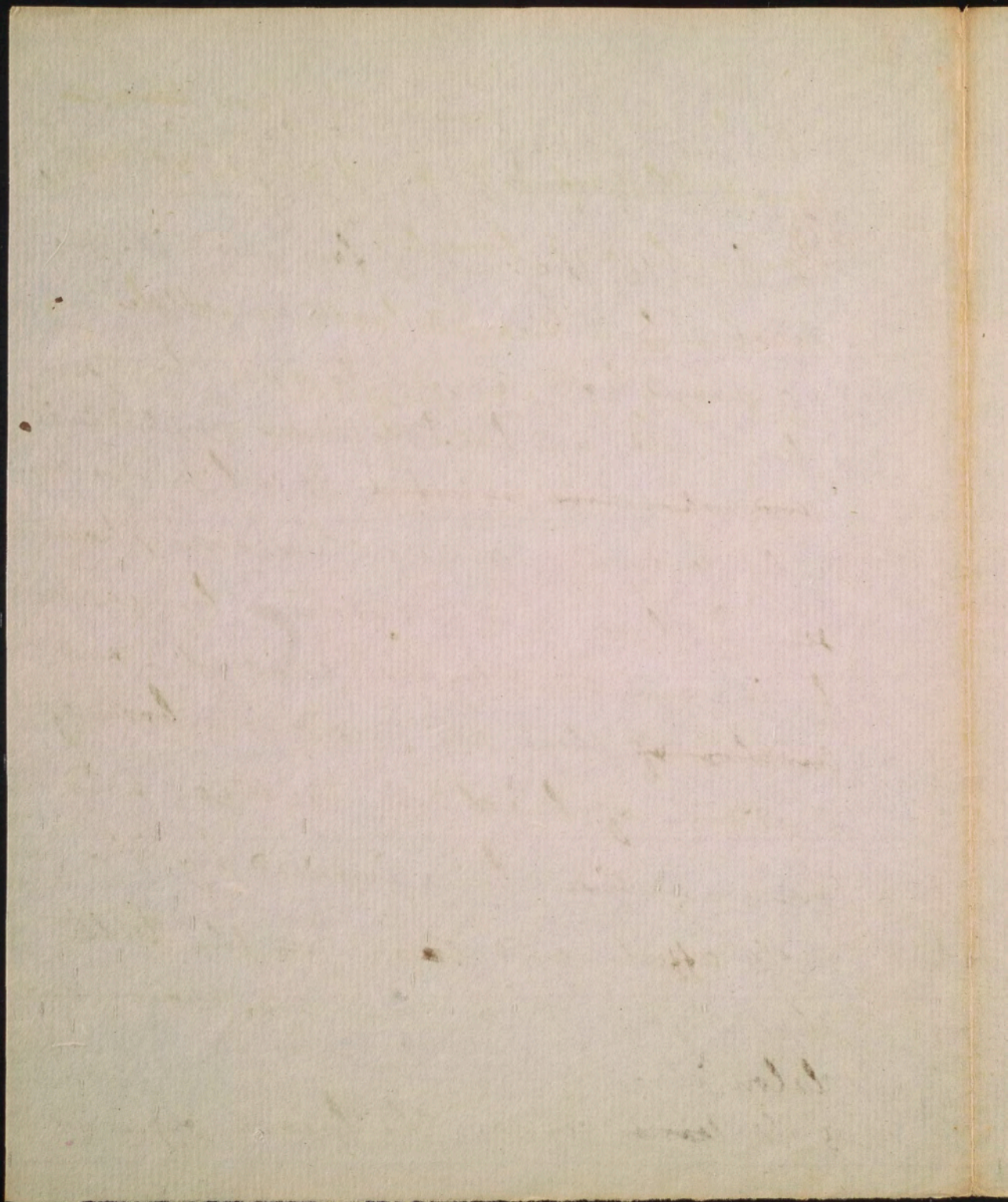
3 Remove a ~~decayed~~ ^{decayed} tooth as soon as
it is perceived, more especially if it be
~~it becomes so loose without being decayed,~~
~~as not to be useful in chewing~~
to bear the pressure of food ~~applied~~ ^{applied} upon
it. A tooth when it ceases to be used,
~~projects from its socket, and becomes~~
~~becomes loose, affects the is apt to pro-~~
~~ject~~

3 Remove a decayed tooth as soon as it is
 (Unless it can be the Decay can be stopped by gold
 pinned ^{half} more especially if it be unable
 to bear the pressure of food upon it. The
 reasons for this advice are as follows.

1 A decayed tooth exposes to great local pain,
 from Cold, and hot. Substances applied to it,
~~and to the surrounding parts~~ It is likewise an
 inlet to many general Diseases. I have
 seen Giddiness and indigestion brought on
 by it, and cured by its removal, and
~~as those of~~ there are records in books of
 medicine of head ach, Vertigo, and
 Consumption being induced by it.

2 It affects, and corrupts the teeth
 that adjoin it, or that are above, or
 below it.

3 It ~~also~~ renders the breath offensive,



and sometimes taints the food ~~that~~
and thus brings on diseases of the
Stomach and bowels.

4. When a decayed tooth not being
used, it is apt to project

and I have been thinking of you for some time

and I have been thinking of you for some time

and I have been thinking of you for some time

and I have been thinking of you for some time

and I have been thinking of you for some time

from its socket, and to become elongated.
 But this is not all - from the want of
 exercise of the ~~teeth~~ ^{the gum becomes diseased} teeth in the jaw
 above or below it, ~~they likewise project,~~
~~and become~~ loose, ^{as} and hence we observe the
 top of the fore teeth of the upper jaw, to be
 soon followed by the top of the corresponding
 teeth of the lower jaw. ~~Thus with~~ The
 truth of this remark will appear more
 evident by attending to the state of the teeth
 in ~~of~~ horses that live altogether upon hay
 or soft food. It disposes the incisores or
 fore teeth of both jaws to project, from their
 want of exercise in cutting the grass, in
 consequence of which they are unable
 to bring their molars or grinders together.
^{that are kept constantly in a stable.}
 Horses often die prematurely from this
 cause. I shall in another place mention
 - on

V 3 Acquire a habit of exercising
equally the teeth of both sides the
jaws in eating. The saliva is thus
poured forth more plentifully upon
the food, and equal strength ^{imparted} ~~and~~
to all the teeth.

the means of preventing it.

✓ Avoid the early and intemperate use
of Acids whether ⁱⁿ unripe fruit, or in
Vinegar in diet, and the ~~constant~~ ^{habitual} use
of the ~~latter~~ mineral acids ~~as~~ ^{as}
medicines. The Nitric Acid is said to be
the least hurtful of them. When it is
necessary to use any ~~one~~ of them for
a considerable time, they should be
taken through a pipe diluted with water,
so as to pass over the teeth without
touching them.

✓ Protect the head and jaws from cold &
a local fever by sleeping in a warm night
cap in cold weather. By this means the
warmth of the body is equalized in bed.
The French people owe their excellent
teeth ^{chiefly to} this ~~fact~~ ^{and} practice in a
climate ^{too} not much less variable than

that of the United States.

6 Wash your jaws and behind your ears every morning in cold water, & your teeth with water a little warmed, by means of fire, or by standing all the night in the ~~up~~ open air of a warm chamber.

7 Wash your teeth after every meal, particularly after supper. The remains of food by stagnating a whole night upon them, becomes putrid, and sometimes so acid as to inflame ^{the gums} and loosen their ^{connections to the} teeth. ~~from this cause~~
~~time with the gums~~

8 Frequently and carefully remove the tartar from the roots of the teeth. It prevents their being duly nourished, and

acid
v sensibility only to heat and cold, &
probably for no other reason than to
teach us to
~~teach us~~ protect them from the
extremes of both in our aliments &
drinks. -

thus loosens and destroys them.
9th Avoid the alternate ^{application} ~~actions~~ of cold
and hot drinks to ^{especially} them in a quick
succussion. The teeth are endowed with V
10th Avoid using the teeth for purposes for
which they were not intended, such as
cracking hickory nuts, bending rails,
biting hard apples or other fruit, and
even biting the ends of the rails, ^{and} ~~use~~
the ends of thread. Women weaken
their teeth very much by the last
practice.

11th Avoid the use of all acid corrosive
tooth powders, also too much friction
of the teeth. The following composition
has been found to be safe and useful,
when rubbed upon the gums by

When ordered upon the ground by
has been found to be safe and useful,
of the test. The following comparison
with powder, also too small for
to make the use of all and to make
proceed.

This test was made by the test
the ends of the rods. In some cases
even taking the ends of the rods and
biting and tapping or better point and
which they were not intended to make
A point being the test for the purpose for
purpose. The test was made by the test
and last coming to them in a single
of the test. The test was made by the test
the test was made by the test.

means of a tooth brush. ^{Powder of} Bark and
 Charcoal of each an ounce. Myrrh
~~and~~ Half an ounce, Cream of
 Tartar two Drains intimately mixed
 together. A weak solution of an
 Alkaline salt is likewise an excellent
 application to the gums. It disposes
 the matters that insinuate between
 the gums & the teeth and thus prepares
 them to be more easily washed out of
 the mouth. It moreover corrects the
 odor of the breath from ~~was~~ decayed
 teeth. Soap and water has been used
 with Advantage for the same purpose.
 11 Brown and black spots ~~that~~ upon the
 teeth should be removed by means of a

file. I have known the decay of the
teeth to be thus arrested through life

The inconveniences ^{from} of the loss of teeth
~~not~~ are such that Art has supplied
several substitutes for them. These are
human teeth purchased & extracted from
the jaws of poor people, and suddenly
fixed in the sockets of the decayed teeth
recently extracted. The ~~new~~ round tooth
in this case does not ^{unite} with the blood
refills of the sockets. This has been proved
by a wooden tooth becoming equally
fixed in the socket of a dog, also by the
root of the artificial tooth decaying and
dissolving in the socket while the other
part ^{of it} remains perfectly
~~retains its strength~~ sound. The
tooth adheres to the jaw bone therefore

~~only~~ exactly in the same way that
 a Nail adheres to a piece of wood. A
~~dry tooth then~~ From the facts that have
 been stated it appears that a dry tooth
~~would~~ (contrary to the common practice)
 would have many advantages over a
 recent one in being less disposed to decay
 from being deprived of its juices, and
 in being less apt to create inflammation
 and ulceration from the accumulation
 of those juices in a state of putrefaction.
 I cannot recommend this practice.
 It is ~~pain~~ inhuman, painful, tedious,
 sometimes dangerous, and always tem-
 -porary. The ingrafted tooth seldom lasts
 more than four or five years.
 A 2nd mode of supplying the want of

teeth is by means of what is called pivot-
=ting. A piece of silver or gold is fixed
in ~~the~~ an artificial or natural tooth
in its dry state, and thrust into the stump
of a decayed tooth. ~~As to the~~ A tooth
or teeth thus fixed, serves the purpose
of speech and even of mastication
for ^{some} ~~some~~ time, but the pivot soon
wears away, or the hole in the ~~tooth~~
stump of the ~~decayed~~ tooth in the jaw
soon becomes too wide to hold the
pivot in a firm state. From ~~the~~ one
or both of these causes the tooth is apt
to fall out in eating, ^{if sometimes to be} ~~it sometimes to be~~
~~instances of its being~~ swallowed with the
food.

a 3rd ~~method~~ of The want of natural
teeth is supplied by tying Artificial

But I by means of water & cold
 things. A piece of linen or flannel
 in the neck & chest or stomach
 in the legs, and thus into the
 of a changed state. ~~And~~ a
 or to the true kind, however the
 of heat and cold of various
 for some time, but the point
 means away, so the heat in the
 of the ~~heat~~ in the
 more however, too much to be
 point in a fainter. From the
 or both of these causes the heat is
 to fall out in eating. ~~And~~
 maintenance of the system with
 food.

The use of springs at the present day, has done away the
 fastening by ligatures.

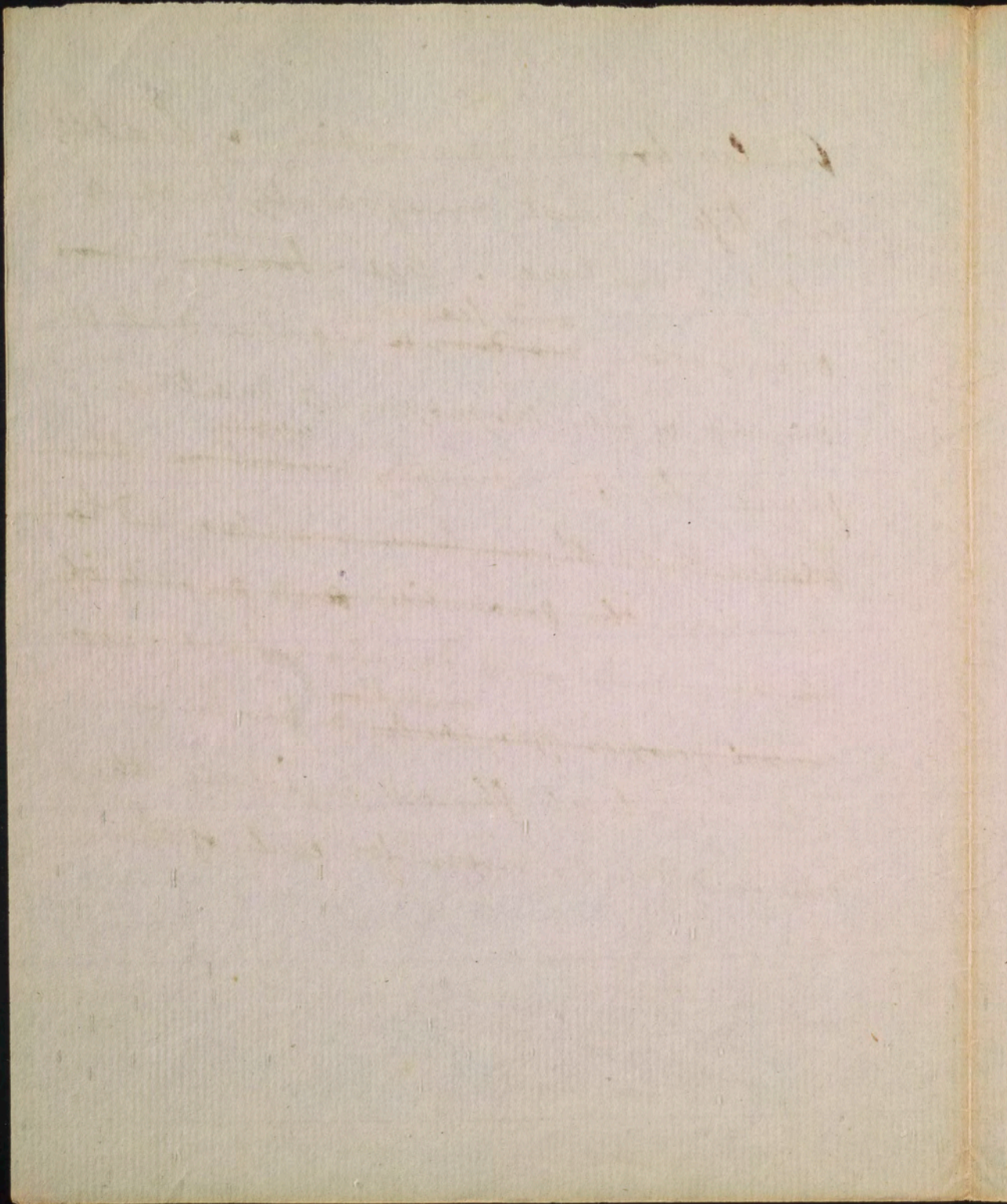
teeth made of the teeth of the Sea Cow
 by means of thread to sound teeth.

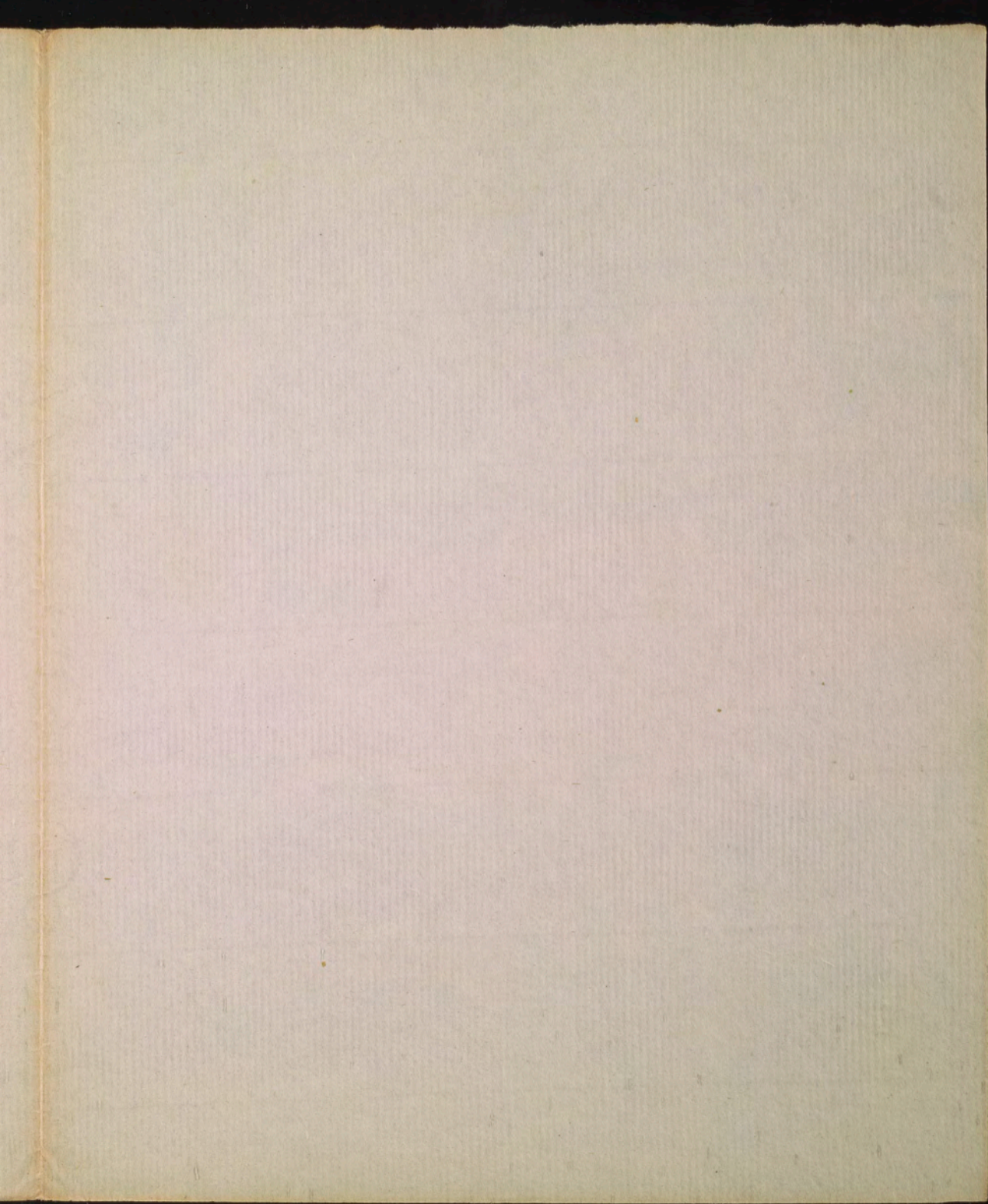
This mode is ~~the~~ most durable and
^{less} ~~least~~ inconvenient of ~~any~~ ^{than any of} ~~them~~
 the two which have been mentioned. Two sets of them
 shall always be in use, and they
 should be changed every two or three
 days. ~~These~~ new sets should be used
 every year or two, for as they wear
 away, or are eroded at their extre-
 -mities, they are apt when drawn
 close to the teeth which hold them
 to loosen them, and thus to cause
 them to drop out of their sockets.
 & where all the teeth have fallen

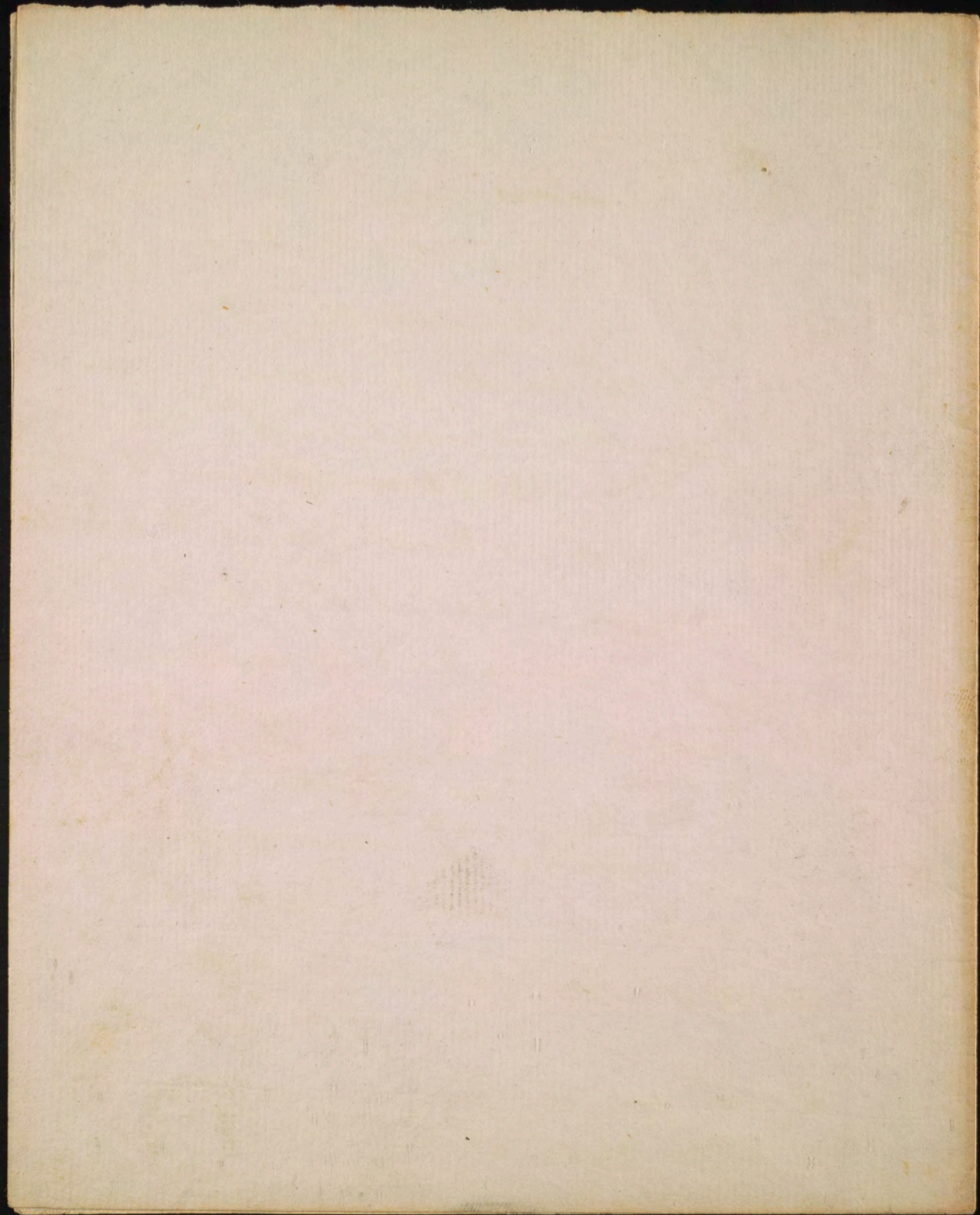
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out, this cap has sometimes been
supplied by a set so formed as to sit
easily upon the gums of the upper
and lower jaw, and to serve in a
limited degree ~~all in any~~ ^{all} of the purposes
of natural teeth. The a Description of
them would be ~~un~~ unnecessary in
this place, ~~as~~ They ~~are~~ are made by
most of the Dentists in the United States.

Rules for the preservation of health
 and life must necessarily be of a
 relative nature. Age - ^{sex} ~~season~~ and
 Occupation ~~and season~~ require diet &
 Drinks of an appropriate nature. I
 shall therefore briefly ^{apply} ~~mention~~ the
~~rules that have been mentioned to~~
~~mention the quantity and quality of~~
~~the aliments and drinks which are~~
~~most proper for each~~ ^{mention} a few circum-
 -stances which should regulate the
 diet and drinks proper for each of them.





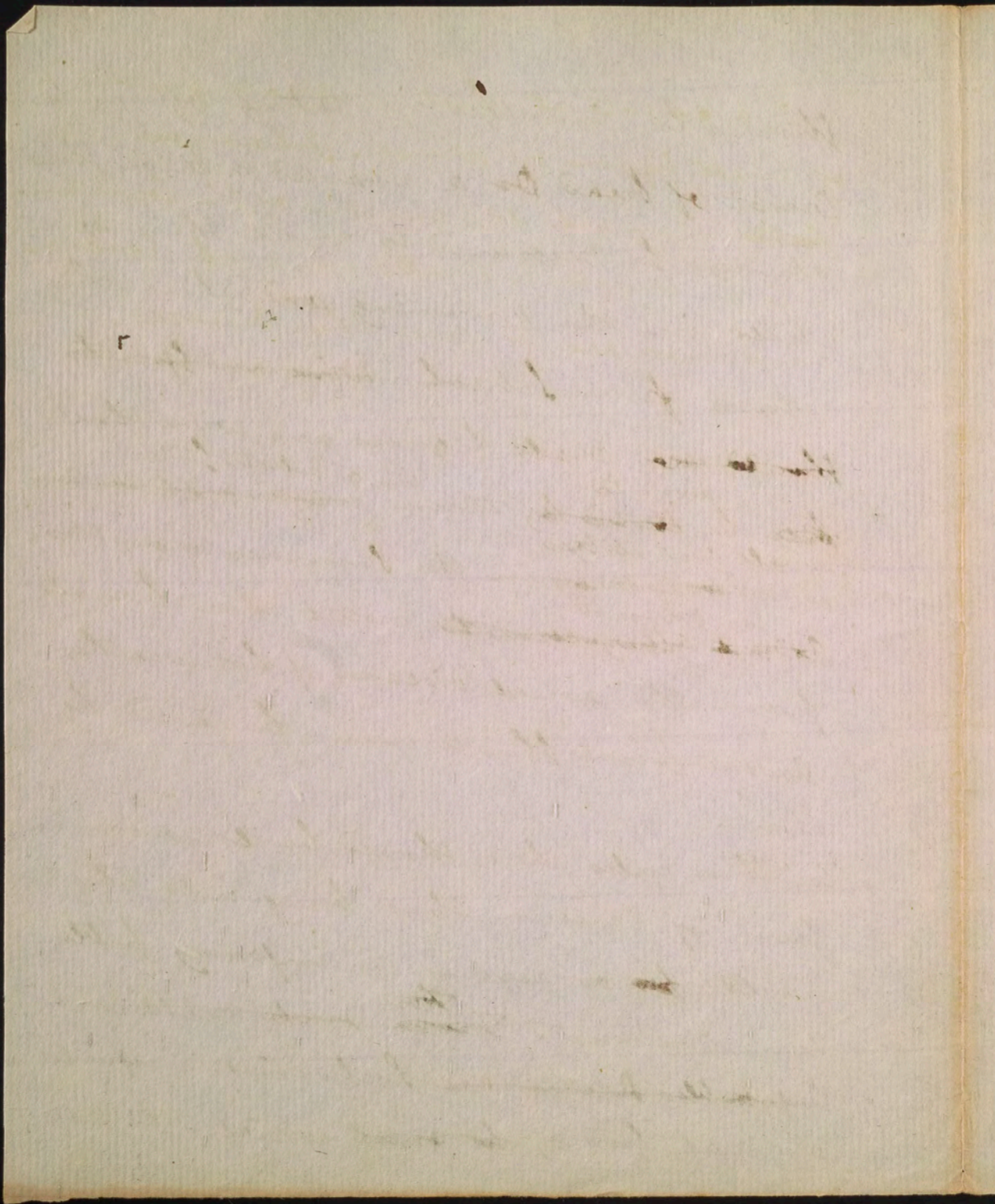


Children ~~require~~ possess more irritability
 or a greater disposition to be acted upon
 by Stimuli, than Adults. They require, ^{likewise}
 food for the double purposes of promoting
 their growth and supplying the daily waste
 of their bodies. It follows of course that their
 Diet and Drinks should possess but little
 Stimulus, and that it should be of the
 most nourishing kind. — ~~we~~ know what
 has been said in the history of Abstinence
 and Drinks, ^{it must be obvious, the grains} that milk, vegetables,
 & fruits ^{with simple} ~~with should~~ compose the former
 and water are most suitable for them.
~~The robust Constitutions of the~~ The
 firmest Constitutions in Europe and
 America have grown out of the
 potatoe, oatmeal and Indian corn

mixed with milk, or sugar or molasses.
As ~~they~~ ^{weak tea & Coffee,} children advance in years they
may partake of weak broths, and fish,
~~both of which~~ ^{with a moderate} quantity of boiled animal food. The less
it is ~~seasoned~~ ^{seasoned} the better. Condiments
such as salted meat & salted fish should
be withheld from them ~~at~~ with their
breakfasts and suppers when those meals
consist of tea, and Coffee. Butter should
be ~~used by~~ given to them sparingly;
~~and~~ sugar may be taken more freely
with their aliments, ^{a teaspoonful or} ~~provided it be not~~
more of it taken in the morning has
been found in many families effectually
to prevent all the diseases which are
produced by worms. From the rapid
digestion which the above aliments
undergo in the stomachs ^{of children} ~~they~~,

should be indulged in eating often. A
 crust of bread, or a roasted potatoe should
 always be prepared to meet their appe-
 -tites in the morning, and when they
 return from school. ~~Wine and spirits~~
~~should~~ ~~be~~ malt liquors and wine should
~~be~~ ^{given to} ~~be tested by~~ ^{in a diluted state in} ~~them~~ ^{small quantities} ~~with great caution,~~
~~and that only~~ ^{in order to} ~~in the summer months,~~
~~Advent~~ ~~they~~ ~~should~~ ~~be~~ ~~tested~~ ~~by~~ ~~them~~ ~~to~~ ~~protect~~ ~~their~~ ~~bowels~~
 from the usual disease of hot weather.
 Ardent spirits should never be tested by
 them.

To these rules there should be exceptions in
 favor of Children that bring into the
 world, ~~for~~ or acquire in infancy, feeble
 constitutions. ~~For~~ ^{For} ~~such~~ ~~with~~ ~~and~~
~~vegetables~~ ~~above~~ ~~are~~ ~~such~~ ~~children~~ ~~require~~
 animal food of ~~the~~ ^a ~~most~~ cordial nature,

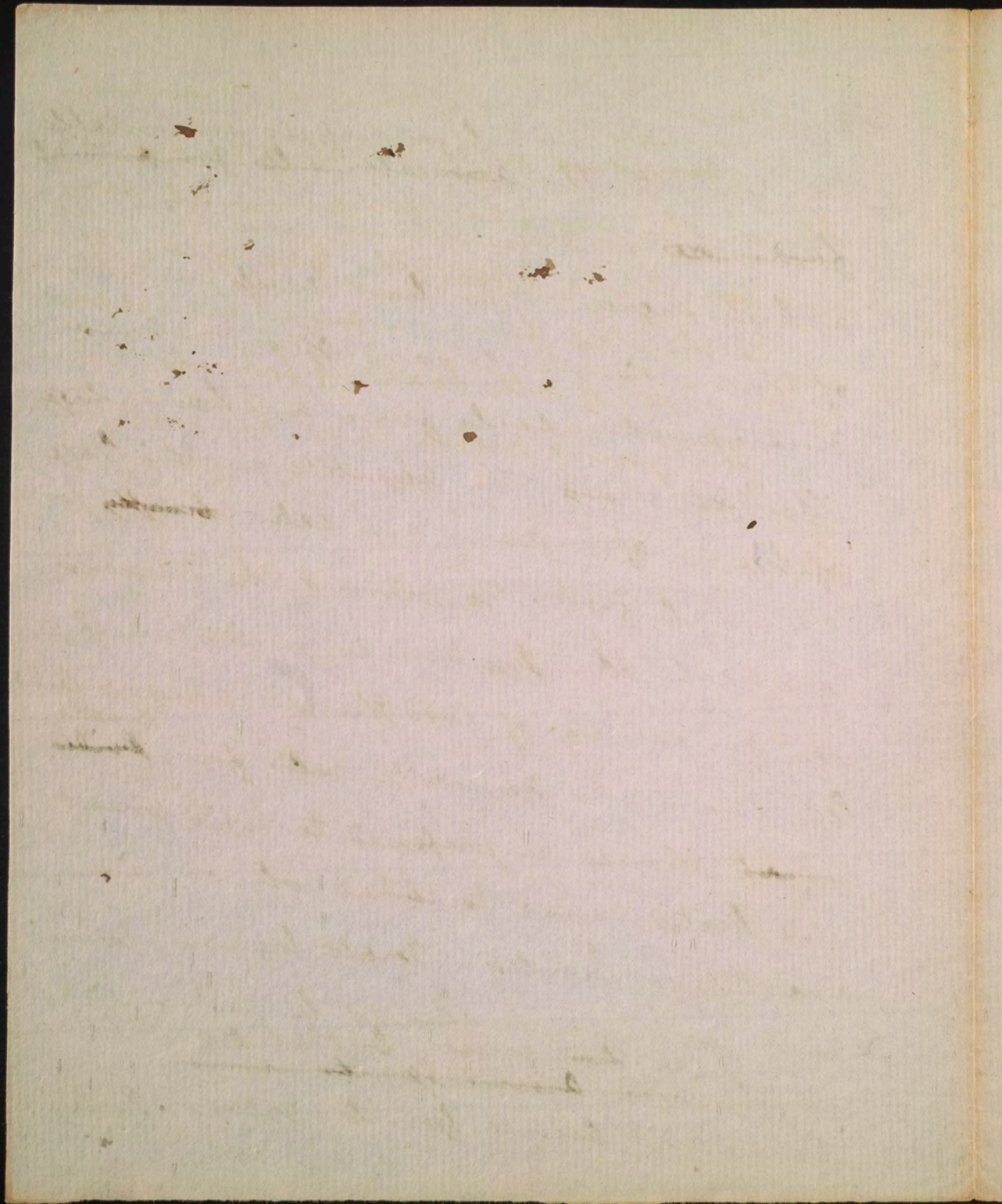


and a constant but moderate quantity
of malt liquor or wine. I have seen a
~~fact~~ they are the enemies of the Constitution,
and as much indicated in such cases as
medicines are to cure their diseases.

and a constant but irregular supply
of small pieces of bone. These bones
were found in the vicinity of the
ditch and were all of the same
kind as those found in the
ditch.

1

In youth the ^{blood vessels} ~~appetite~~ ^{are irritable} ~~calls for animal~~
~~food~~ and the nerves sensible in
 a high degree. The least cause in either
 of them, disposes to, and often produces
 disease, particularly fevers and hemorrhages.
~~The diet~~ The appetite in this stage
 of life is often keen, and calls ~~chiefly~~ ^{for}
 animal food. To prevent the diseases
 to which the system is predisposed ^{at}
^{this time} the quantity of food should always be
 less than the appetite calls for. ^{Broths} ~~Boiled~~
~~meats~~ should be preferred to solid meat,
 and boiled meat to that which is
 roasted, or broiled. Malt liquors, wine
 and condiments should be taken spa-
^{with their meals,} ~~ringly, and ardent spirits never.~~
 singly, ~~and ardent spirits never.~~ Pasty
 time, and ardent spirits - never. Pasty



made in the most simple manner,
and ^{mixed} ~~abounding~~ with fruits, serves to
blunt the appetite for animal food,
and thereby to lessen the Bile of it. It
should therefore form a ~~for~~ material part
of the Diet of all boarding schools. There
are few young people that are not fond
of it.

and thank to them for the
of the list of all the
one for young people that are not
of the

the system undergoes a change.
 In middle life, ~~the diet and drinks~~ ^{are} nearly in an
 Immutability and sensibility are in a more
 exact proportion to each other. It is
 moreover the period of ^{great} ~~high~~ bodily and
 mental exertion, of course ~~more~~ ^{great} ~~moderate~~
~~your~~ diet and drinks of a ~~more~~ cordial
 nature are required to supply the ~~the~~
 rapid expenditure of the strength of the
 body and vigor of the mind. To ^{person of} ~~too~~ ^{maintain} ~~this~~
~~at~~ this age, I shall only ^{refer} ~~refer~~ ^{to}
 an attention to the Rules which are
 annexed to the history of diet & drinks,
 and advise them further to recollect that
 good health like money is a Capital,
 and that the more Economy is used in
 expending it ^{in early and middle life}, the more will be laid up

1843
The first of the year
was a very cold one
and the snow lay
on the ground for
several days.
The weather was
very disagreeable
and the people
were much
concerned.
The snow was
very deep and
the people
were much
troubled.
The weather was
very cold and
the people
were much
concerned.
The snow was
very deep and
the people
were much
troubled.
The weather was
very cold and
the people
were much
concerned.
The snow was
very deep and
the people
were much
troubled.

for old age. Not wise but not obvious
the injuries that are done to it, for many
reasons, the system often suffers ~~in~~
years in ~~for many years~~
patience and liberates the injuries that
but sooner or later there is an end to this
are done to it in early and middle life;
forbearance;
but it does not always for bear. If the
overflowing business, the rich ragouts,
the undue and oppressive loads of work
simple animal food, the improper
mixture of aliments, and the bottles &
instead of glasses of wine which have ^{been} swallowed
with them, will revive years afterwards
like the hiss in the forms of if they
do not ^{subject} ~~expose~~ to a premature death from
common acute diseases, they will revive
in the forms of Vertigo, palsy, and
apoplexy, and thus amply avenge the
^{intemperate and sinful use} ~~abuse~~ of the the precious
gifts of providence.

For all the time that I have been
in the service of the Government
I have been very happy to be
able to do so much for my country
and to be able to do so much for
myself. I have been very happy
to be able to do so much for my
country and to be able to do so
much for myself. I have been very
happy to be able to do so much
for my country and to be able to
do so much for myself. I have
been very happy to be able to do
so much for my country and to be
able to do so much for myself.

Old age may be divided into two periods,
 the one beginning at 60, and ending at
 75, - the other, extending from 75 to the
 remotest term of human life. This
 latter stage has been called decrepitude.

In the former period, the blood begins
 to flow with languor, and ^{is disposed} to stagnate
 in ~~that~~ ^{those} parts of the body in which the
 force of the heart and ~~heart~~ ^{arteries} is least
 felt. The senses of seeing, hearing, and
 touch become dull - and the tone of
 the mind descends with that of the body.

The nervous system loses a portion of its
 sensibility, but it acquires at its expense, an
 increase of irritability, that is, ^{it} is more easily
 moved by those impressions which act ex-
 -cursively upon it. The ~~truth becomes less~~ ^{truth becomes less}
 -sistently upon it. The ~~truth becomes less~~ ^{truth becomes less}
 appetite increases, while the taste

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drop
~~or fall~~ out of their Sacks, or become ~~poor~~
~~the state of the body in the first stage of old~~
~~so lose that it is difficult or impossible to masticate~~
~~As it is evident that a~~ ~~There is however~~
with it, ~~and~~ ^{and} them, and there is
an inaptitude to exercise, and ^a disposition
to prefer rest to labor. It is from this

cause that ^{those} ~~many~~ persons who have led
active lives and who ^{have} become independent
in their circumstances, ~~at~~ between 55 &
60 years of age, often ~~lose~~ lose their
health, and are affected with all the diseases
that arise from a languid circulation
of the blood, and a want of tone in the
muscular and nervous systems. In this
stage of life, a material change should
be made in the Diet and Drinks. The
former should consist of Articles rendered
cordial by Condiments, but not very
nourishing. These should be ^{forms}
for ~~well boiled~~ meat ^{or otherwise prepared,} so boiled ^{as to be}
rendered easy of mastication, fish,

V The attachment of old men to cordial Aliment is illustrated in the command of Isaac to his son Esau to render the venison "savoury" and "such as he loved" before he brought it to him.

VI ~~As the system bears with difficulty~~ ^{From the increase} and indulgence of the ~~the reduction of diet in this stage of~~ ^{acute} life, the ~~diseases incident to it should~~ of appetite, and the ~~indulgence of it~~ ^{diminution} of exercise and labor, the blood vessels become overcharged with blood and the system becomes subject to all the diseases of plethora at this time of life. To remove them, - a reduction in the quantity of Aliment is submitted to with reluctance, and is borne with difficulty & sometimes with Danger. ~~by the system.~~ The remedy for these diseases is small & occasional bleedings. They are safe and useful, and do less violence to the system than any other mode of depletion.

pastry, fruits, Chocolate, tea & coffee. ^V The means
 that old people advance to seventy five, & the
 often they should eat. It has been common
 to call wine the milk of old age. This is by
 no means a ~~correct~~ ^{true saying} ~~opinion~~. From the
 increase of irritability in their systems, a
 large quantity of fermented liquors of all kinds
 is introduced ^{than} than in early and middle life.
 wine, beer, and malt liquors therefore
 should be taken sparingly, ^{by them,} and always
 in a diluted state. The more ^{thin & simple} liquids they
~~take in this way~~ drink the better within
 a certain degree. They are calculated to
 obviate that disposition of the fluids to
 coarcescence, ~~and~~ obstruction, and the formation
 of gravel and stone in the kidneys & bladder
 which accompanies old age. u

In that stage of life which has been
 called Decrepitude -

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~~infantile constitution. There is now not~~
~~only an indisposition, but an inability to~~
~~labour or exercise. The Diet in this stage~~
~~of life should be ^{therefore} ~~radical~~ ~~of~~ ~~take~~ ~~consisting~~~~
~~but not stimulating~~ supply this place. ~~It~~
~~nature~~ in supporting the actions of life
~~now calls for~~ not only ^{for} cordial
~~but sometimes for the fattest meats,~~
~~and experience shows that it is safe~~
~~and proper to gratify her. As the~~
~~digestion is now rapid, food should be~~
~~taken in the intervals between meals,~~
~~and where ^{called for by hunger} ~~whenever it~~ ~~attends this~~
~~extreme period of human life, food~~
~~should be taken in the middle of the~~
~~night. The drinks ^{should} be ^{simple} ~~simple,~~
~~fermented liquors. Ardent spirits should~~
~~for the same reasons which were~~~~~~

V From the greater irritability of the female
Constitution, Women require less ^{stimulating} ~~alimentary~~
~~both~~ and nourishing Aliment than men,
^{at nearly} all times, ~~but~~ ^{and} particularly at those
~~periods~~ when the system is ⁱⁿ ~~in~~ ^{permanently}
excited, or inflammatory state, ~~that is during~~
~~the continuance of this morbid disease,~~
~~menstruation and~~
~~and the time of pregnancy.~~ ~~Abstinence~~
~~to this end should be made~~ ~~the~~ Abstinence
Diet is strongly suggested by nature in the
^{state of the system}
latter ~~case~~ by the sickness and flatulency
and want of Appetite which she induces
during the first months after it takes
place. ^{The only} ~~There is but~~ exception to this rule,
~~and that is~~ should be during the time
of giving suck. The diet and drinks should
then be of a more cordial and nourishing
nature.

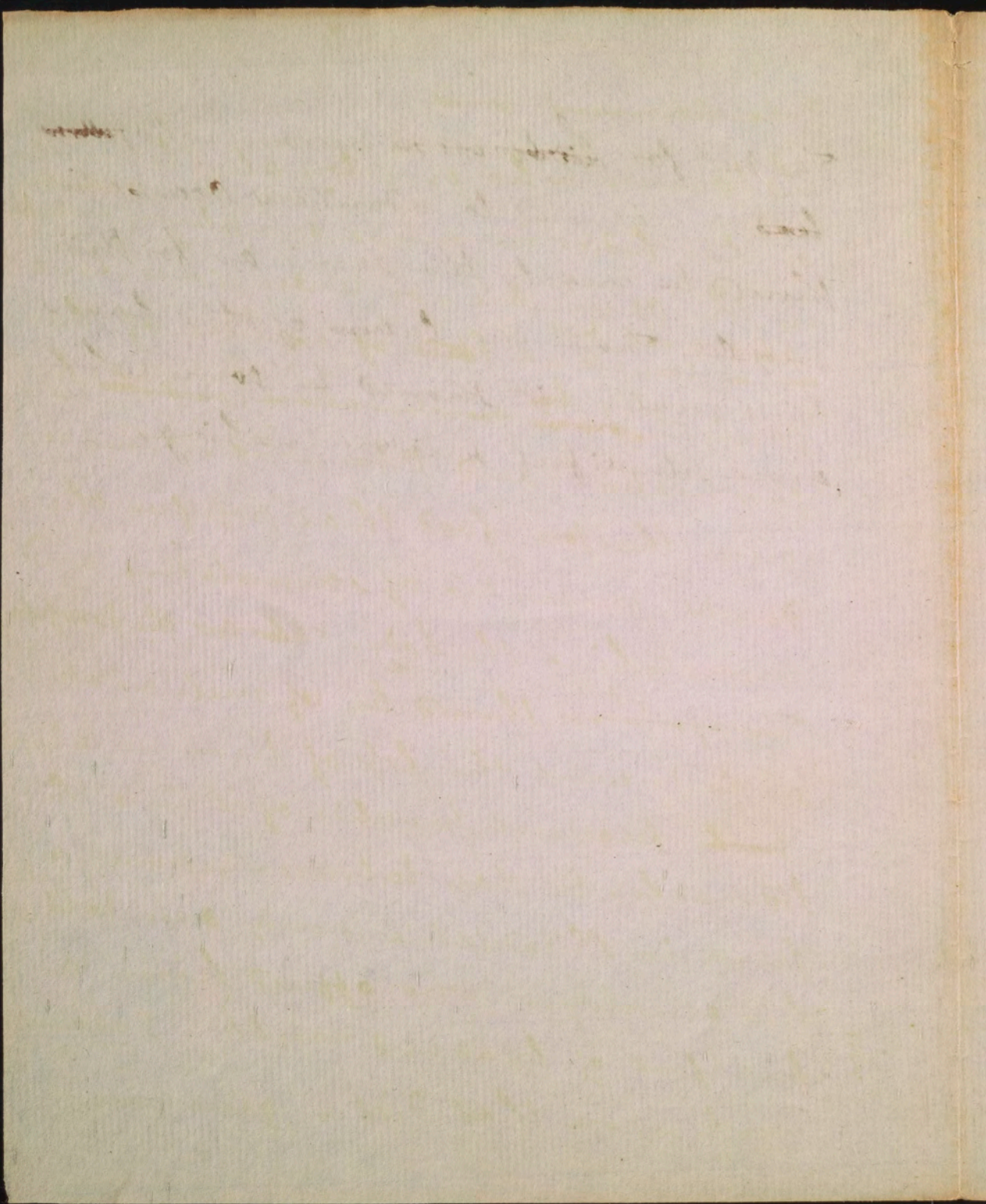
not be tasted.
~~mentioned in ^{the} treating upon the~~
V ~~drinks proper for the first stage~~

Strenuous men induce upon their Systems
~~the~~ many of the diseases which are brought
on by ^{inactivity} ~~the~~ of Old Age. The undue
exercises of the brain ^{have} ~~leave~~ other parts
of the body and particularly the stomach in a
~~and less in a state of torpor~~
torpid state. To obviate this torpor
the diet should be gently stimulating,
small in quantity, and not very nour-
ishing. Wine may be taken ^{with this} ~~liberally~~
it ^{food}. It keeps up the actions of life without
adding much to the quantity of blood, ~~but~~

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Coffee should be ~~prepared~~^{used} liberally
by ~~this~~^{this} class of people. ~~The~~^{and}
It is like ~~win~~^{cordial} ~~without~~^{scarcely}
~~being any~~^{nothing} ~~adding~~^{adding} ~~more~~^{nothing}
~~more~~^{to} the nourishment of the body
~~but~~^{but} what is contained in the Sugar &
Cream or Milk which are mixed
with it. Mr Poole ^{who spent ten years in writing} the ~~author~~^{author} of a Synopsis
and Annotations upon the bible, his Biogra-
^{let us} ~~rose~~^{and sat down to his studies} ~~at~~^{at} three o'clock every mor-
^{ning} ~~ing~~^{ing}, eat a raw egg at 9 o'clock and another
at 12, and after spending the ~~whole~~^{whole} afternoon
with in his closet, ~~left it in~~^{passed} the evening of
~~which~~^{the day} he passed in convivial society with
his friends. Many of those Authors who
have both both instructed and delighted the
world ^{by} their writings have lived
from necessity upon ~~the same~~^{an equally} scanty
fare ~~fare~~^{that this portion of Abstemious}
and perhaps owed their lives to it ~~life~~^{life}
^{similar} ~~similar~~ portion of life nourishing Abstemious.

76
The diet for ~~Laborers~~ persons who ~~follow~~
~~lead~~ are devoted to idantary Occupations
should be nearly the same as for studious
people. From the labor of their hands
being greater, it should be somewhat
more plentiful and nourishing.



~~The Aliment~~ ~~and~~

Labourers who employ all the ^{whether} muscles
of their bodies in active employment ~~do~~
in the open air, or under cover, live
^{at a great &}
~~in a~~ constant ~~state~~ of expence of their
strength ~~from~~ ^{by} perspiration, and ~~the~~ by
perspiration and otherwise. They re-
-quire therefore food that possesses the
double properties of stimulating and
nourishing the body. ~~It is the profits~~
~~the former~~ ^{It} should be of such a nature
as to prevent the loss of time in taking
~~such~~ frequent supplies of it into the
stomach. A day labourer upon a
farm in Philadelphia County once ^{said to} ~~told~~
his employer who offered him a
breakfast of bread and milk "I cannot
work upon that diet - give me

For information and

the purpose of the present
of this letter to the
in the hope that it may be
of some service to you
in the future. I am, Sir,
Very respectfully,
Your obedient servant,
J. H. [Name]
[Address]
[City]

10

in
 something to eat that I can sell ~~all~~
 my stomach till dinner time". Food
^{He had found by}
~~that of digestion~~ experience had taught
 him that food slow of digestion, accorded
 best with the waste of his strength by
 labor. This should be. Salted meat,
 particularly pork (which from its
 fat ^{I have said is} ~~is the best~~ ^{more nourishing}
^{salted} than beef) - smoked meat - and fish
 sausages - ^{onions} ~~onions~~. The
 hard boiled eggs and ~~onions~~. The
 best of those articles should form a
 part of the very meat of labourers.
 The Jews were enabled to ^{comply with} ~~perform~~ ~~this~~
 the severe exertions of their task masters
 in ~~the~~ ^{the} hot sun of Egypt, by feeding
 upon onions and other alliaceous roots.
 Sir William Temple says the Persians

+ O! chra mufonun illia"

✓ The Russian peasants obviate
hunger by eating half ^{baked} ~~done~~ bread, &
the Irish peasants do the same thing
by eating half boiled potatoes. They
produce that effect by their ~~the~~ indiges-
-tible qualities.

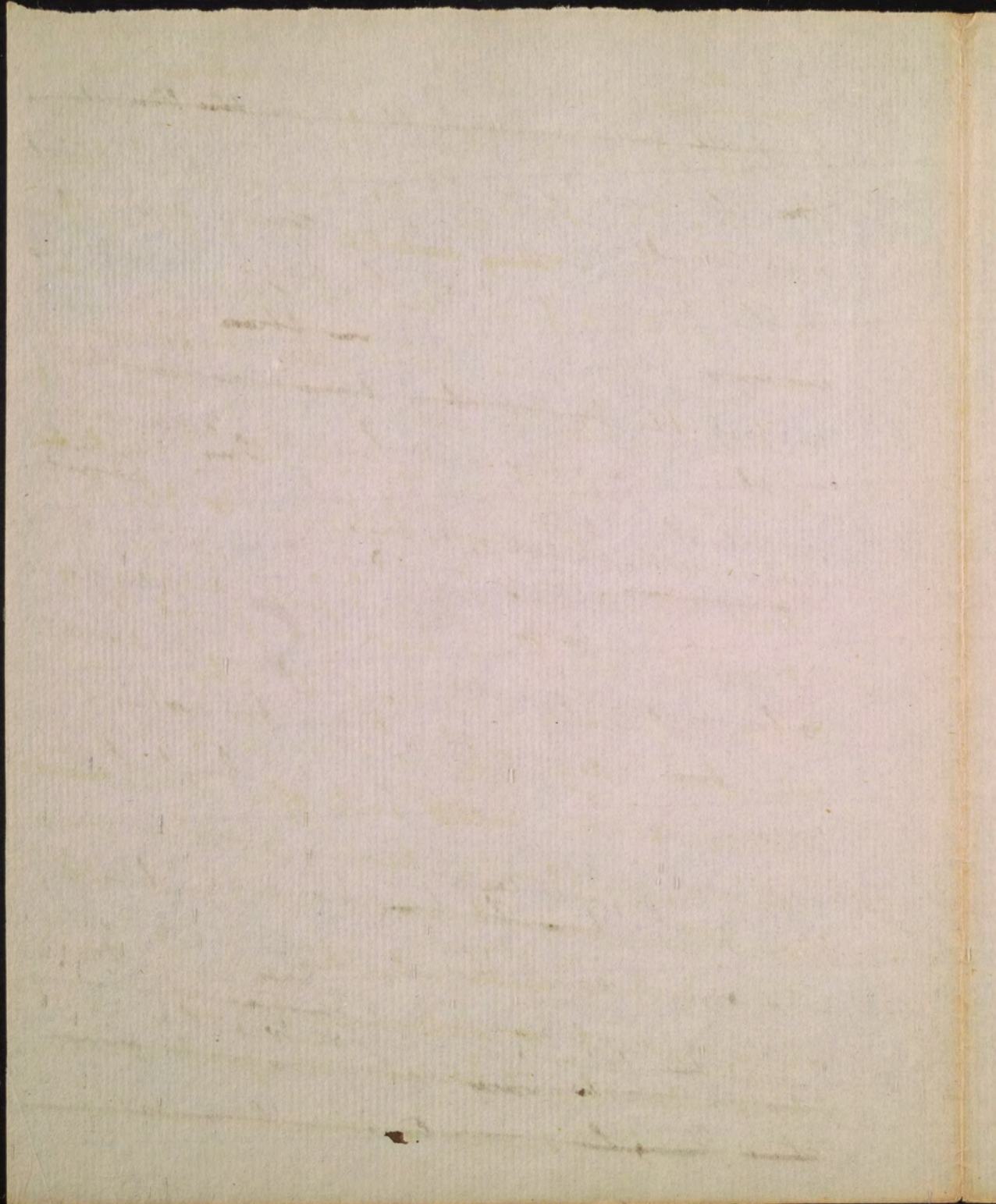
of Egypt were built by them, by which
he meant, that those stupendous monu-
ments of human industry & folly were
erected by men who were fed chiefly upon
^{onions & garlic} ~~them~~. The tails of the harvest in ancient
Rome were supported by a diet of which
onions formed a part. of this ~~the poet~~ ^{Horace}
mentions a proof in his ^{contrast of} ~~appeal to~~ the
strong digestive powers of rascals, with his
sufferings from having accidentally ^{eaten} ~~seen~~
~~food~~ ⁺ ~~vapor~~ of them. ~~etc~~

The Chinese Dr. Barrow tells us add
not only onions, but rancid Castor Oil
to their rice. ~~in order to make it worse~~
~~condi~~ It seems like the onions to retard by
the digestion of the rice, ^{under laboriousness} and to producing
a more durable stimulus upon the
system. V

~~Upon the diet of all the three last~~
~~classes of people, that have been mentioned,~~

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~~I shall only remark that as the stimulating~~
~~the~~ The Drinks of labourers should be simple,
 and small in quantity, more especially
 in the former part of the day. The Indians
~~always~~ avoid drinking ~~in this~~ as much
 as possible until they ~~have reached their~~
 in their marches and hunting excursions,
 until they stop to eat which is ~~about~~
 never before the middle of the day.
 After ~~noon~~. They consider it as a mark of
 youthful folly, inexperience & folly to do
 otherwise. It certainly impairs the appetite,
 and ~~thus~~ weakens the body. Sir Robert
 Wilson in his account of the English ex-
 -pedition into Egypt in the year ¹⁸⁰¹ says
 those soldiers ^{suffered least} ~~from the heat,~~
 who only washed their mouths with water
 without swallowing it. ^{experience teaches} ~~Instead of drinking~~
~~that the labor even in hot weather is~~
~~between meals, they laborers will find~~
~~their strength supported much more~~

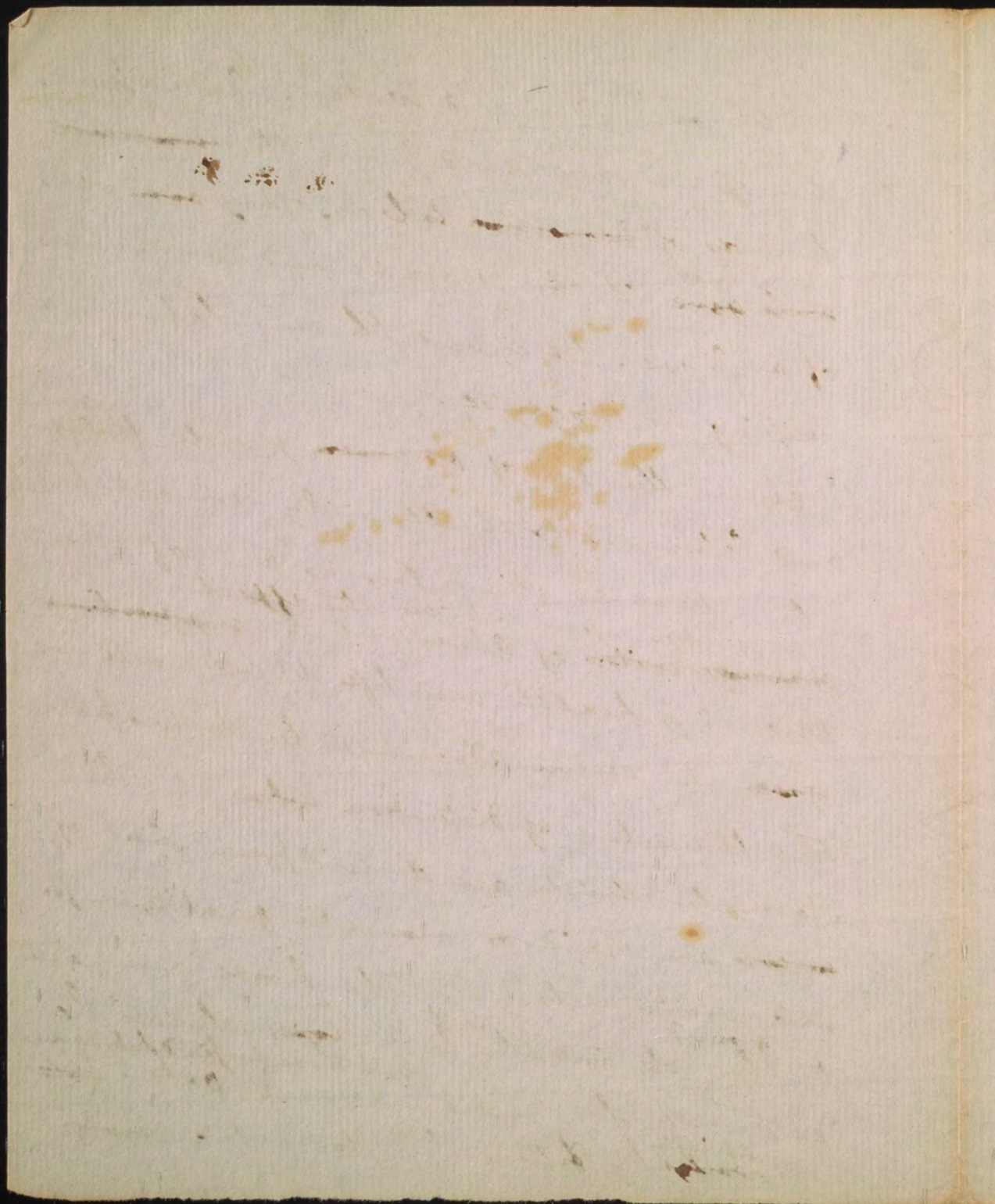


be ~~supported~~ much better by ^{taking a little} eating, ~~than~~
cordial Aliment, than by drinking between
meals. The Jews made use of figs for
this purpose. ~~They~~ ^{scarcely} this fitness for
it is evident from countless feeding upon
them in ancient Greece. The Arabians
Niebuhr tells us always carry Raisins &
Onions with them when they travel to
eat upon the road, in order to obviate
both heat and fatigue. In the United
States ginger bread ^{biscuit and dried fruits} have been found to be
both agreeable and useful when used in
the same way. ~~Biscuit~~, a piece of smoked
meat, or the ~~salted~~ end of a salted ^{Cup's} ~~meat's~~
tongue might be taken by those persons
to whom ginger bread is not agreeable.
The drinks ^{of labourers,} with whether in the field,
or at meals, of labourers should consist
of envelopes and water. vinegar & water
with a little sugar, or milk & water or

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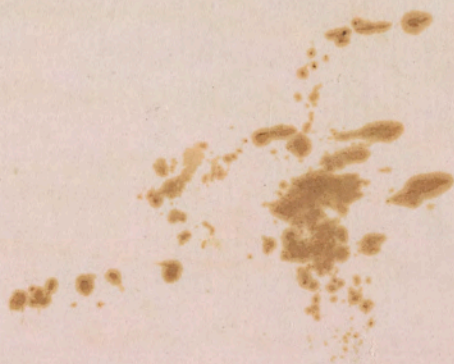
porter or Cyder and water. Ardent spirits
 should be proscribed from the ~~involuntary~~
 haunts of ~~involuntary~~ labor. They run alone
 convey into ~~some give~~ it the character and consequences
 of a Curse. Without them, labor is a
 blessing in disguise. —

Upon the diet of ~~all~~ ^{men,} ~~man~~ people, studious,
 and labourers, I shall only remark fur-
 -ther, that as Stimulus is one of the
 properties upon which the effect
~~presupposes~~ of Abstemiousness in ~~supporting~~
 preserving health and life depends, would not
~~from~~ the same advantages be derived from
 the Stimulus of Distention ~~what~~ in the
 Stomach which are derived from that of
~~so~~ an acid, or aromatic quality in food
 and Condiments? — The horse is invigorated
 by the Cob and the ^{cut} straw ~~which~~ which he
 eats with his Indian Corn & Oats. ^{Both} those insipid substances
 are cut ^{chiefly} ~~only~~ by filling his stomach. ^{many} ~~more~~



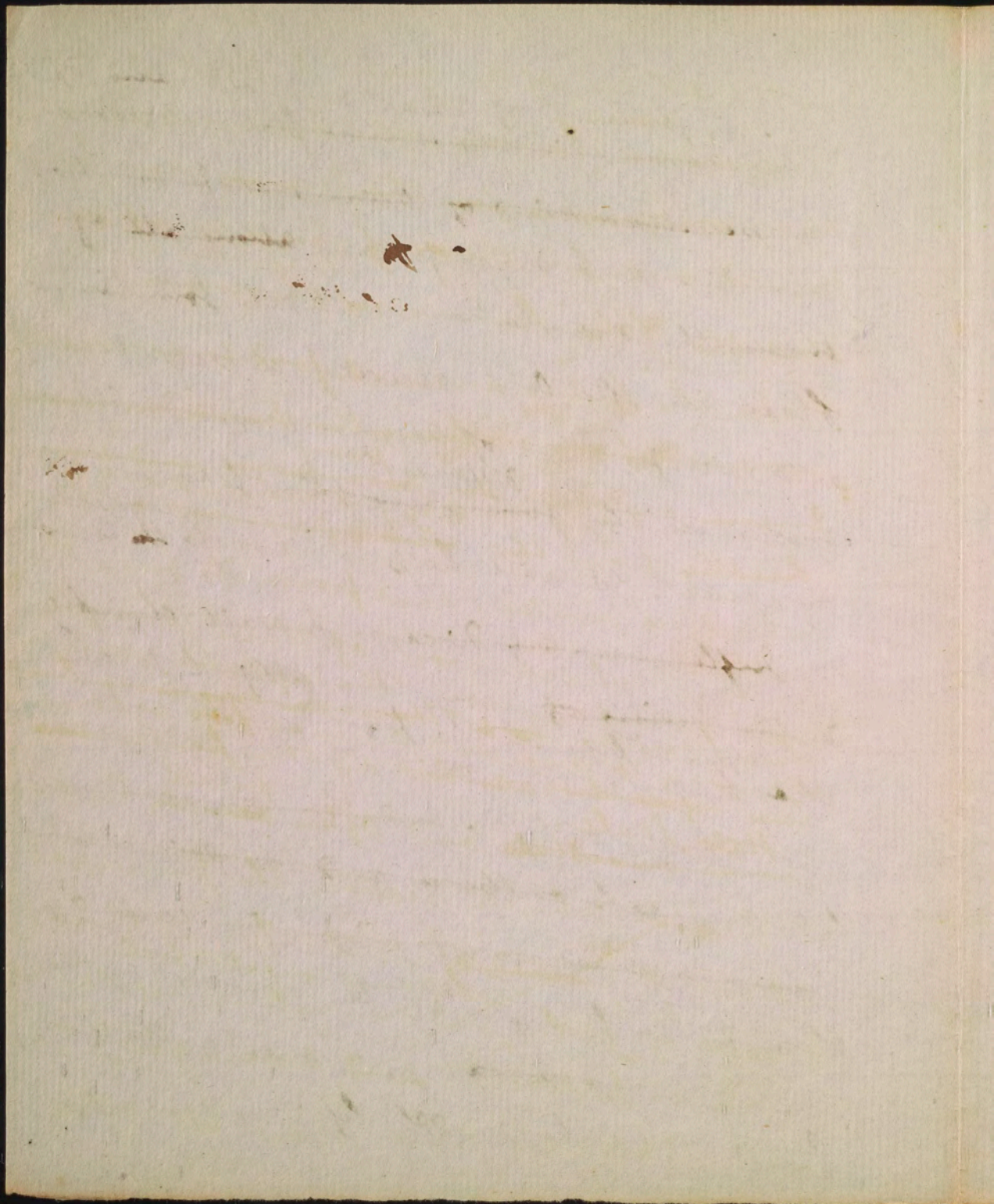
Wild animals are kept alive by taking ^{matters} into
their stomachs which act in the same ~~manner~~
mechanical manner. as in ~~the~~ ^{the} ~~same~~ ^{same} manner.





influence of Heat and Cold, and of
 The Seasons in the United States require
 a peculiar kind of Aliments & Drinks.
 moisture and Dryness, and above all of
 these, the exhalations which sometimes
 float in the air under a peculiar
 and specific kind of Aliments and Drinks
 proper in the ^{different} four seasons of
 the year. It will help to impress ^{correct} the ideas

~~Inflammatory Diseases prevail chiefly~~
 in the Spring ~~of~~ upon this subject to remark,
 the affinity between the four
 seasons and four of the most promi-
 nent stages of life, and the correspondence
 between each of these and the Aliments &
 Drinks that are most proper in each of
 them. The Spring may be considered as the
 childhood, ~~and youth~~ - Summer as the youth,
 Autumn as the middle life, and Winter,



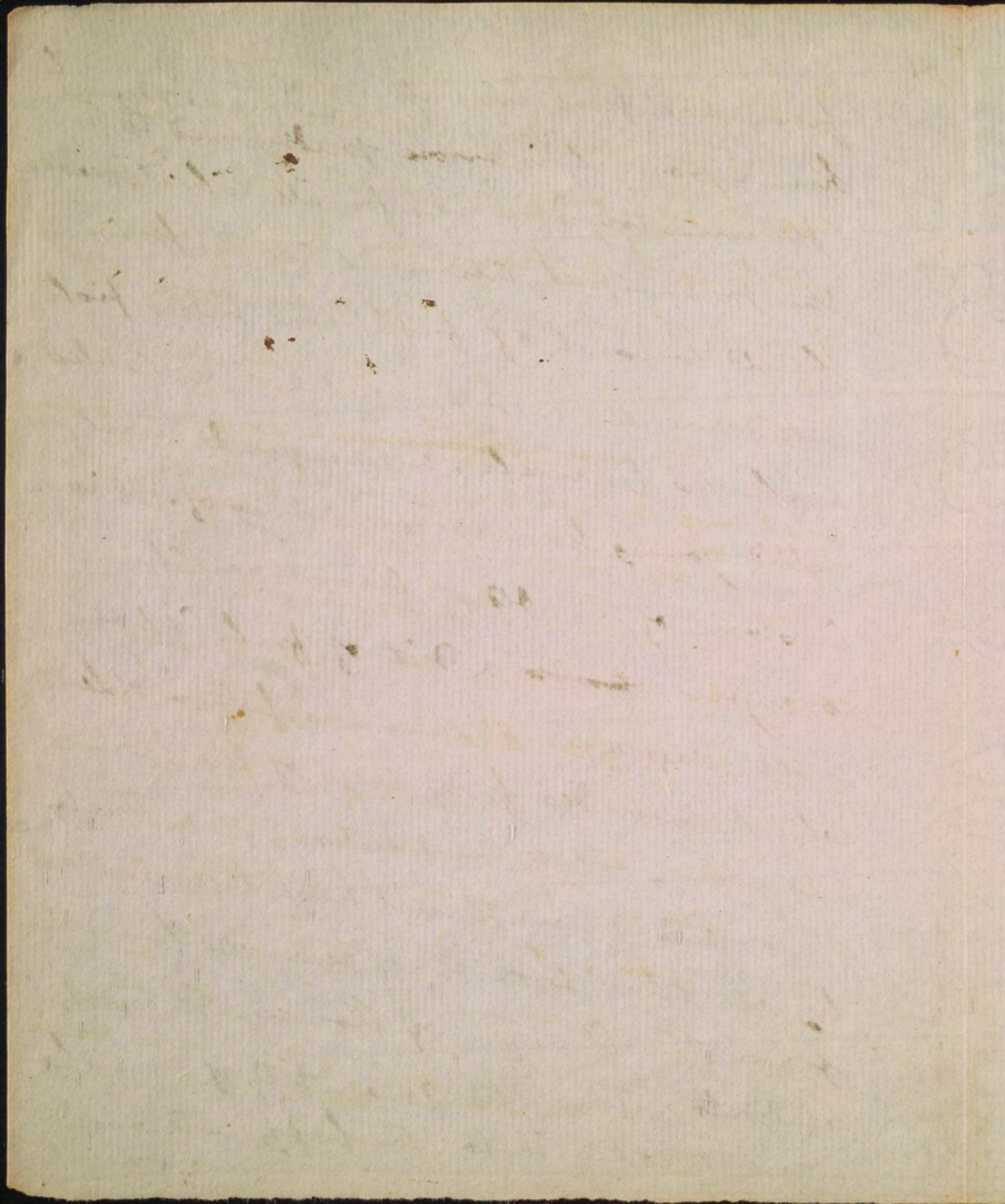
as the old age of the year. A striking ^{exists} correspondence between the Aliments I drink that are proper for the seasons have been pointed out for those four ages of man, and the four seasons of the year mentioned.

In the Spring, animal food is generally poor and from its being the season in which animals are generally ^{poor} from and ^{poor} dry and perhaps scanty, ^{poor} healthy from the ^{poor} scanty aliment of the preceding winter, and from its being the time in which most of them propagate their species. ^{The vegetables which it is necessary to mix with animal food are numerous but few vegetables at this at this season are} State, stale, and often ^{poor} small, in quantity;

for which reason the principal aliment instead of in the Spring should consist of ^{fresh} fish, ^{salted meat, or salted fish} and excellent vegetables such as Spinach - and Asparagus. The system at this time above all others,

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from the first inspirations of the Vernal
 sun upon it, is ^{in a great degree} predisposed to in-
 flammatory Diseases; for all which reasons
 the principal Aliment in the Spring
 should consist of fresh and salted fish,
 salted meat, and excellent vegetables
 such as Spinach, asparagus & what are
 called young sprouts (consisting of.) It is a
 Custom of the oldest Christian Church
 to enjoin ~~that~~ a Diet of fish alone
 with vegetables during the season of Lent,
 which includes forty days of the Spring
 months. This institution is a truly
 wise one, and should have been retained
 by all those sects that separated themselves
 from the Church of Rome. It is calu-
 -lated to reduce the quantity of nourish-
 -ment taken into the body, and conse-
 -quently



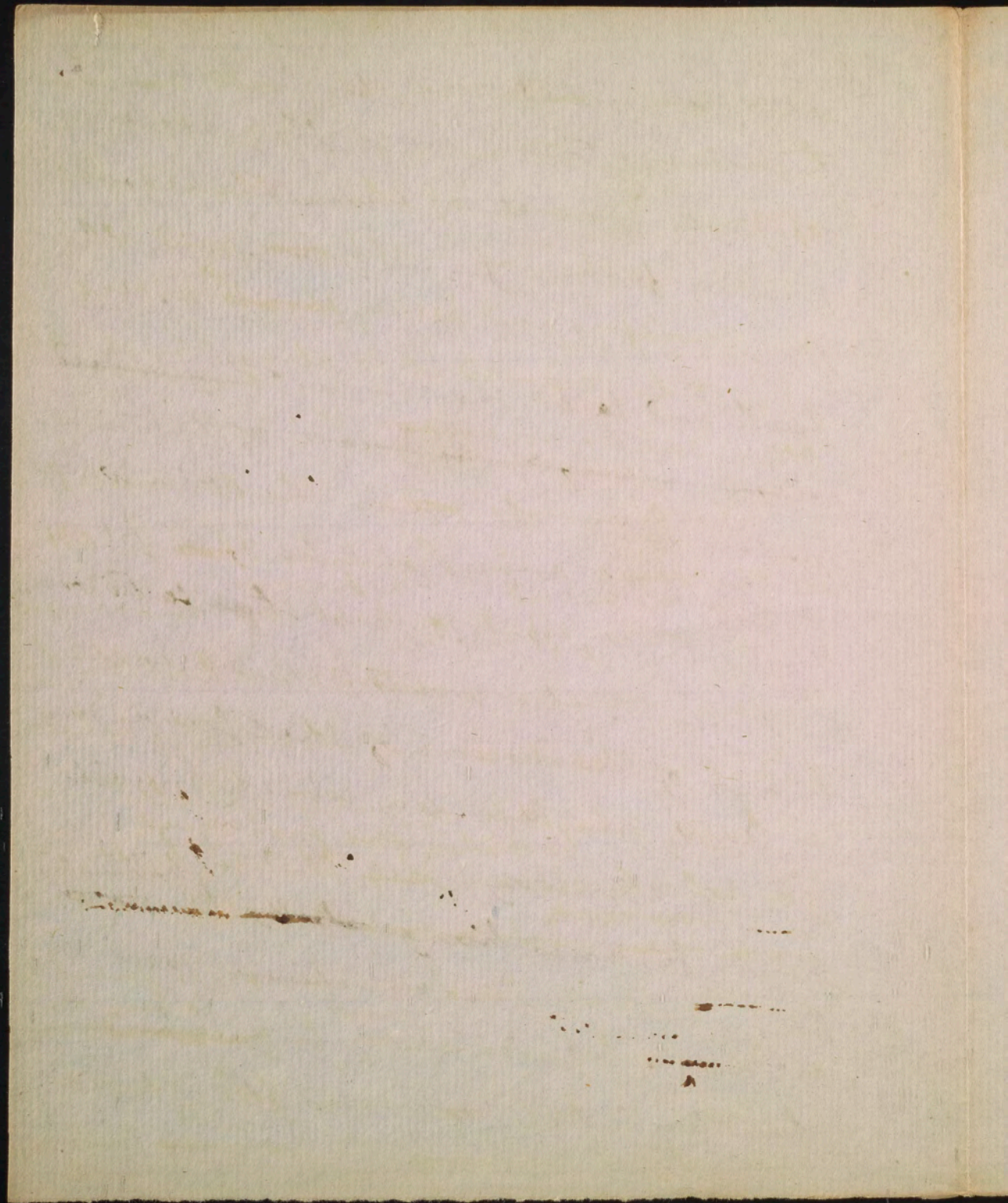
to open plethora, and the predisposition
to inflammatory diseases. It has this
effect not only from its being less nour-
ishing, but from the diminution of
appetite which the same food taken
for a long time, necessarily creates.

It was ~~formerly~~ ^{is} a practice to take
bleed ~~and~~ to take purging physic in the
drinks in ^{and to use diet}
spring in some countries ^{to prevent the diseases of that} & the simple
season.
and temperate diet which has been recom-
mended will render them all wholly un-
necessary for that purpose.

In summer the heat of the sun disposes to
fevers and bowel complaints by its action upon
the solids and fluids of the body. Life is now
in exuberance. The diet proper to lessen it, &
to obviate its diseases should be ^{distending to the stomach} cordial to the
bowels, [&] nourishing in a small degree, ~~to the~~ ^{these}
the fruits of the season, ~~but~~ ^{should be} rendered gently
stimulating by condiments, salted meat, &c.

V The effects of heat upon ^{it} their ~~flora~~
the animals that af-
more especially when they are recently
- find it ^{often} exercised, ~~how~~ renders them it unfit
the ~~cause~~ unsuspected cause of
Dysentery, Colic and dysentery.

bush^{side} salted fish, salads and all the fruits of
 the season. Fresh meat should be taken
 sparingly, if at all. ^V It would be a good
 practice for our farmers to revise the
 times in which they consume their
 fresh and salted provisions. ~~They would~~
~~escape many of the diseases of the human~~
~~body~~ By eating their fresh meat in winter
 at which time it might be kept for
 weeks without salt, and their salted meat
 in summer, they would probably escape
 many of the diseases of that season par-
 -ticularly the dysentery which prevails
 more in country places than ⁱⁿ cities chiefly
 from farmers living ~~wholly~~ ^{habitually} upon
 salted meat than in other ~~season~~ parts of
 the year. The drinks during the summer
 should be Cyder - port and Ale diluted



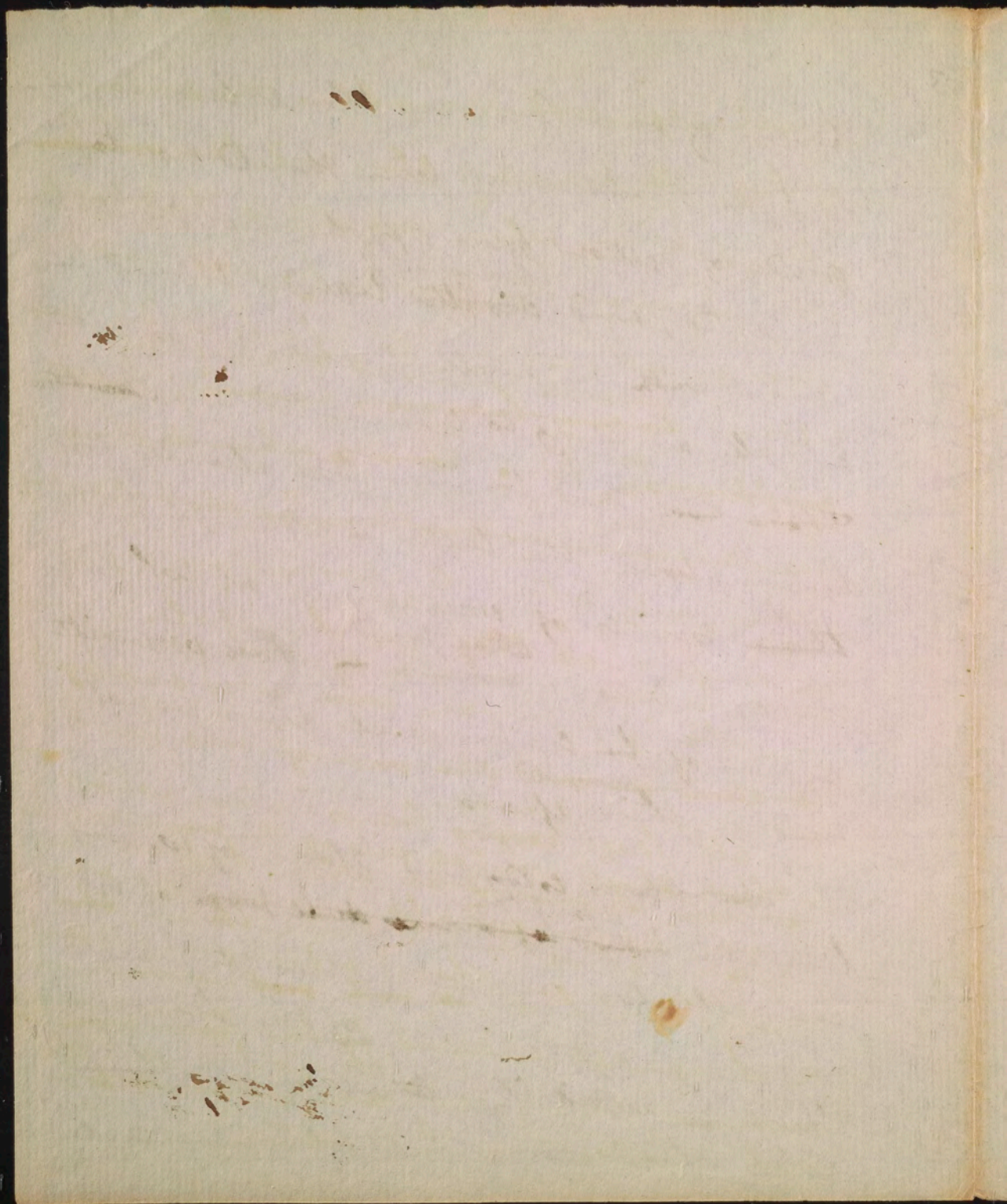
but if any
with water ~~or~~ at meals; ~~and~~ ~~rather~~
liquids should be required in the intervals
of meals, some of them should be
tasted. Water, or with ~~or~~ and water,
or Emolus and water ~~should~~ alone ^{the}
should be resorted to to allay thirst. All
other drinks increase it. -

The Aliments ~~and~~ in the Autumn should
be the same as in Summer. ~~For~~ In addi:
- tion to the ^{morbid} effects of ^{the summer} heat upon Animals,
they are sometimes rendered unhealthy by
feeding in pastures in which they inhale
a large quantity of putrid exhalations,
for which reason ^{up of their flesh} ~~they~~ ^{fresh meat} should be eaten
~~with more caution~~
~~with than in summer~~ ~~with more~~
caution than in Summer. The quantity
of ~~drinking~~ ^{fermented} liquors may be ^{now} ~~increased~~ ^{taken in a}
less diluted state ~~at~~ with food, more
especially if ~~rather~~ the ^{mild} ~~common~~ Autumnal

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fevers of our Country should be epidemic.
 - If the autumnal fever should rise to the
 grade of yellow fever, fresh meat should not
 be tasted, and ^{fermented} ~~distilled~~ liquors should be
 taken with in small quantities, or not
 at all, according to circumstances. ~~In the~~
~~these~~ ^{the} former diet elevates the
 system above, the latter it reduces it below
 the points of excitement at which
 the exhalations ^{that produce} ~~produce~~ of those opposite
 grades of ^{autumnal} fever, usually
 produce this ^{enervated} effects. —

The ~~the~~ ^{depression} cold and gloom of winter
 like the ~~hand of time~~ ^{depression} ~~of old~~
 age, call for more generous aliments
 and drinks than any of the seasons
 that preceded it. ~~It is at this~~
~~time that convivial pleasures are~~



most safe and agreeable. The Surlin
of beef, the sparkling ale, and the ^{full} bumper
glass of wine when opposed to the delicacy
induced upon the system by cold, and the
subsequent exercises to which it disposes,
under the univivial ^{unfriendly} to
reclaim ~~its~~ ^{any} ~~harm~~ ^{improvement} health
~~or~~ ^{or} ~~life~~, ~~It is to when it they~~
~~are taken in moderation. In the midst of~~
It is only when its pleasures are enjoyed
in excess, that they are hurtful. It would
be well if a person ~~who~~ were employed
to ~~stand in at the end of~~ as a spectator
in all large ^{dining} ~~company~~ companies, whose
office should resemble that of the monitor of the
~~business~~ ^{it should be} when he saw any
Roman Emperor, and who
person eat or drink more than the
proper for him, ^{should} ~~to~~ whisper in his ear
the language addressed to the Roman
~~emperor~~ ^{there is sickness in that}
plate, and death in that bottle."

[The page contains approximately 25 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is too light to transcribe accurately.]

The transition is a natural one, from mentioning the ~~of~~ bad effects of ~~excess~~ in eating and drinking, ~~to take notice the effects of a privacy of Aliment and drinks upon health and life, and to point out the means of obviating the effects of a privacy of Aliments & drinks upon health and life, an evil to which the Citizens of ~~some~~ the United States are sometimes exposed not only from sea Voyages in common with other Nations, but from hunting, and travelling in new and unsettled Countries.~~

~~1 Tying a belt tight round the belly. The Indians use this remedy against hunger. The ~~Coptic~~ belt used by the Copts in Egypt as a part of Dress, probably serves the~~

1. V Drinking water, ~~or exposing the body~~
~~to the external air at night so as to~~
~~imitate the dew when water cannot~~
~~be obtained~~ Redi found by many expe-
-riments that animals that drank
water lived much longer under equal
circumstances than those that did not.
Exposing the body to the external air
at night so as to enable it to imitate
the ~~sea~~ dew, where water cannot be
had, has been found to preserve and
prolong life where there has been a
total want of food.

The means for this purpose which have
been suggested by accident, or reasoning, and
~~from prospect~~ sanctioned by experience are V

2 The Use of certain calcareous substances
particularly the powder of Calined Oyster
Shells. They act by ~~thrusting~~ the Acid which
is in the Stomach ~~from the~~ its diseased state
Action induced in it by hunger. ~~Lead dust~~

3 Saw dust, more especially that which
is ~~made~~ ~~made~~ Obtained from the hiving,
the Cedar, and hives enable trees. Dr. Franklin

was once threatened with ruin by a
man of great influence in Philad^a.
whom he had ^{indignantly} offended by a ^{paragraph} ~~publication~~
in one of his newspapers. The Doctor
invited a few of his friends to dine
with him the next day. His dinner
consisted of some weak mutton broth,
and a pudding. After dinner he asked
his guests how they liked his pudding?

✓ A brother of the Doctor, who was a Sea Captain
kept a cargo of horses alive for three weeks by
feeding them upon nothing but the fine chips of Cedar
minced in water, & afterwards sprinkled with a little flour.

4 Opium ~~is~~ in substance, or liquid
Laudanum. The Turks also relieve
the pain ~~and fatigues~~ of hunger,
as well as fatigue of body by
small doses ^{of this medicine} taken in insipiens
of this medicine.

* ~~The Russian peasants obviate hunger by
eating half baked bread, and the Irish pea-
sants do the same thing by eating half
boiled potatoes~~

They all said very well. He then
 told them it was prepared from Saw
 dust with a ^{few} Spoonful of ~~small quantity~~ of flour,
 and that ~~the whole dinner he had given~~
~~them had cost him but sixpence - and that~~
~~costs cost them but his reason for giving~~ ^{he said}
 them so free of ~~meal~~ ^{meal} was ~~to~~
~~show the he was~~ ^{to determine a} ~~2nd~~ ^{event}
~~simple question, and that was~~
~~using the name of the gentleman he~~
~~had offended had threatened to ruin him,~~
 and that he was asked whether they
 thought it were possible to the ruin a
 man that could not only dine himself,
 but entertain his friends ~~upon~~ for
 the trifling sum he had mentioned.
 ✓ of the use of Tobacco. ~~It is~~ This weed so
 useful or hurtful when habitually used,
 has in many instances obviated the

✓ remedies for hunger will be admitted
by reflecting that animal life is sup-
ported by substances taken into the
stomach which act only by their
stimulus, or weight, without con-
taining a ~~fractional~~ particle of nourish-
ing matter in them.

pain and danger of hunger. It acts by creating a discharge of saliva into the stomach, ~~blunting the sensation of hunger~~ which also by blunting the sensation of ^{the} ~~the~~ last hunger. The ~~most~~ efficiency of the ~~two~~ last

~~6 The matter discharged in sweat. They contain a portion of dissolved fat, and of course a small quantity of nourishing matter. Mr. Hollowell and several of his fellow sufferers in the black hole of Calcutta were kept alive by feeding upon this only, and each other's discharges from the skin.~~

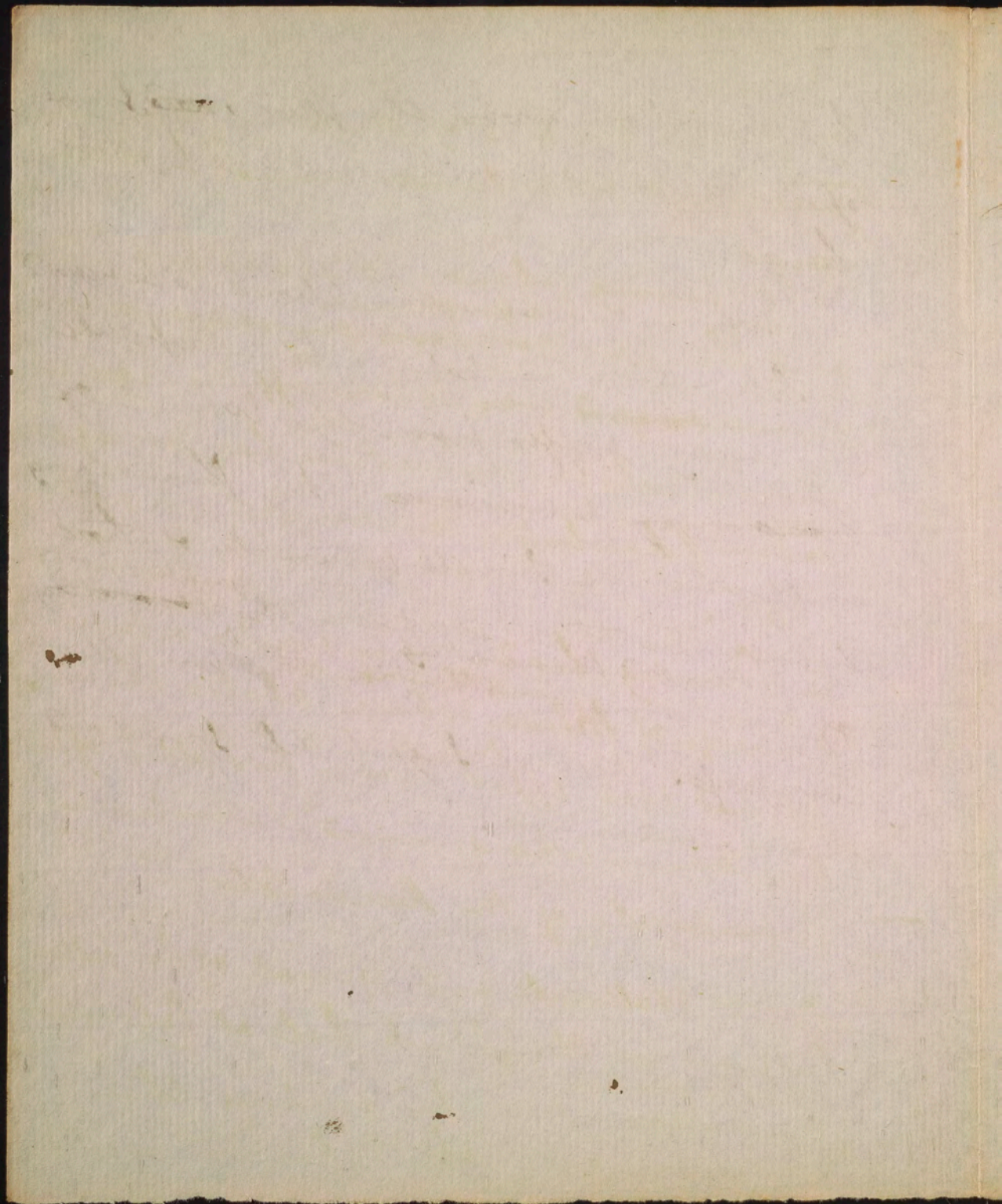
~~7 The smell of certain acid or pungent substances. There is an account of in the German Ephemerides of a woman who was kept alive nine days by constantly smelling the Oil of Amber.~~

~~17. Balking the body in salt or fresh water. It lessens the pains of hunger~~

v. 7. Tying a belt round the ^{belly} ~~body~~.
The Indians use this remedy against
hunger. The belt used by the Copts
in Egypt as a part of dress, probably
serves the same purpose.

by its action upon the skin, ~~and~~ some
of the water is probably inhaled by the
lungs. —

When persons are about to be exposed
to situations in which it is possible
they may suffer from the want of
^{food,} ~~extraordinary provisions~~, they should carry
with them a small quantity of those
substances that contain the ^{greatest portion} ~~quantity~~
of nourishing ^{and stimulating} matter in the smallest
compass. These are Sugar, Oil, Spirit and
Liquor Laudanum.



The means of abating thirst where
fresh water, and other liquids cannot be obtained.

are
1 Chewing tobacco. It abated both hunger
and thirst in ^{a gentleman} ~~Mr Davis~~ one of the passengers who
~~was~~ ^{was} taken off the Rose in
bloom which vessel in her passage
from Charleston to New York in Septem^r
1806.

2 Chewing lead. This excites a copious
discharge of saliva ^{into the mouth} which abates thirst.
It had that effect upon two other of the
gentlemen who survived the melancholy
catastrophe of the Rose in Bloom.

3 Mr Hollowell and several of his fellow
sufferers in the black hole at Calcutta
^{in the East Indies,}
were kept alive by sucking their
own and each others' linen wetted

It would give me pleasure to proceed
in pointing out the means of preserving
health as far they are connected with
the ²structure and materials of our houses,
with air - drup, exercise & the employ-
ment of the intellectual faculties, but
these would encroach too much upon other
more important parts of our course. I
shall however glance at them in our
pathology.

~~Let~~ I shall dismiss the subjects of our
~~attention~~ from last lectures, by summar-
izing that Lord Bacon ^{says} ~~comments~~ that
~~all~~ ^{should be} ~~kind of~~ Science ~~is not~~ ^{is not}
down to the business and concerns of
mankind. I have endeavored to

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

~~I~~ I have failed in ~~for~~ acting up to
the end of this illustrious philosopher
in bringing the ~~sub~~ ^{four last} ~~science~~ subjects of
the ~~four~~ ^{four last} lectures I have delivered down
to the business and bosoms, I hope I
ended it at least to ~~the~~ ^{of my class}

I have aimed to ~~do in the four lectures~~
~~which I have last delivered, and now~~

I have aimed to bring down the science
of ^{the} ~~the~~ ^{four last} ~~lectures~~
which has composed ~~our four last lectures~~

not only to ^{your} ~~the~~ business & bosoms, but

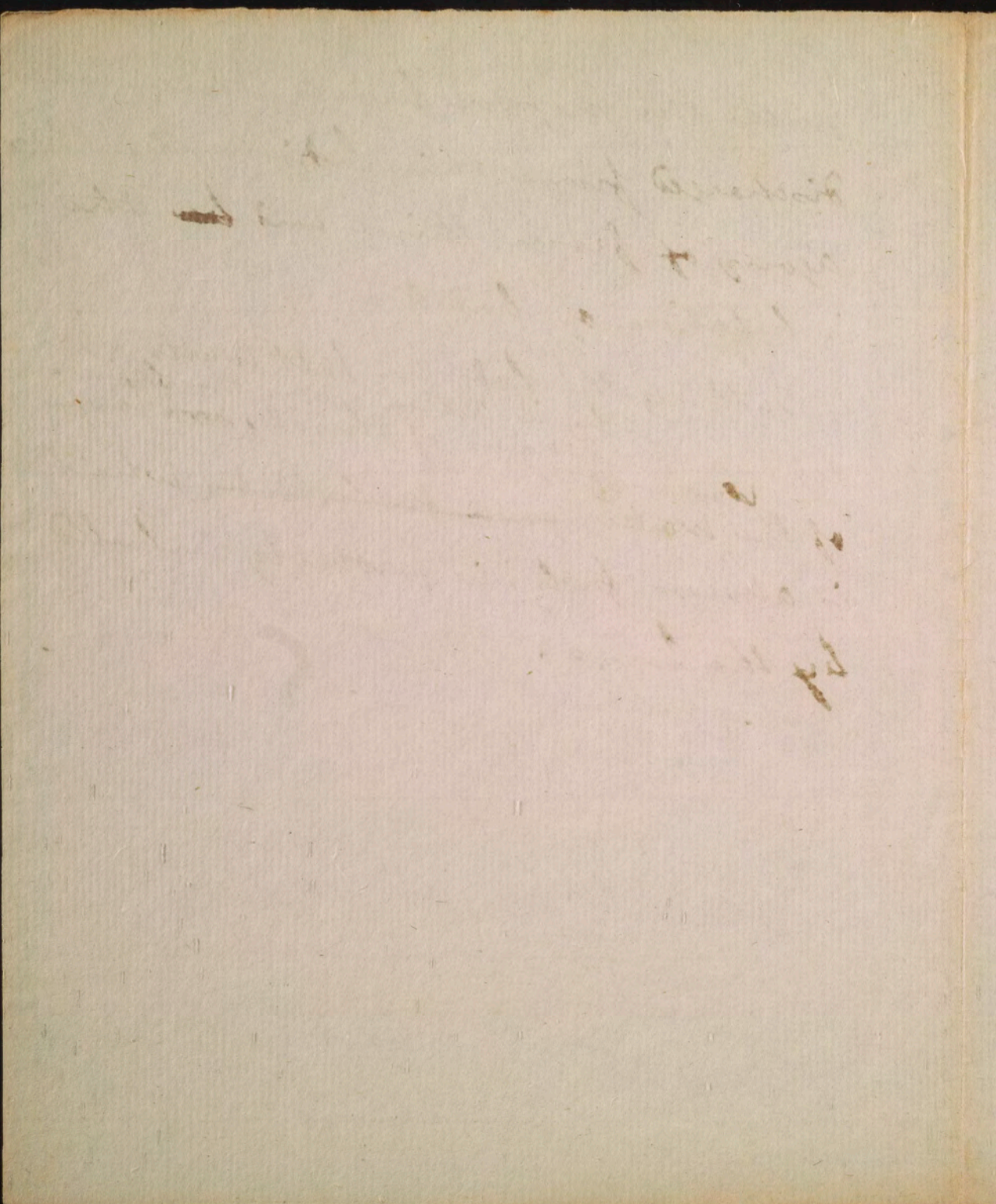
to ^{your} ~~the~~ appetites - stomachs and constitutions,
as well as to those persons who

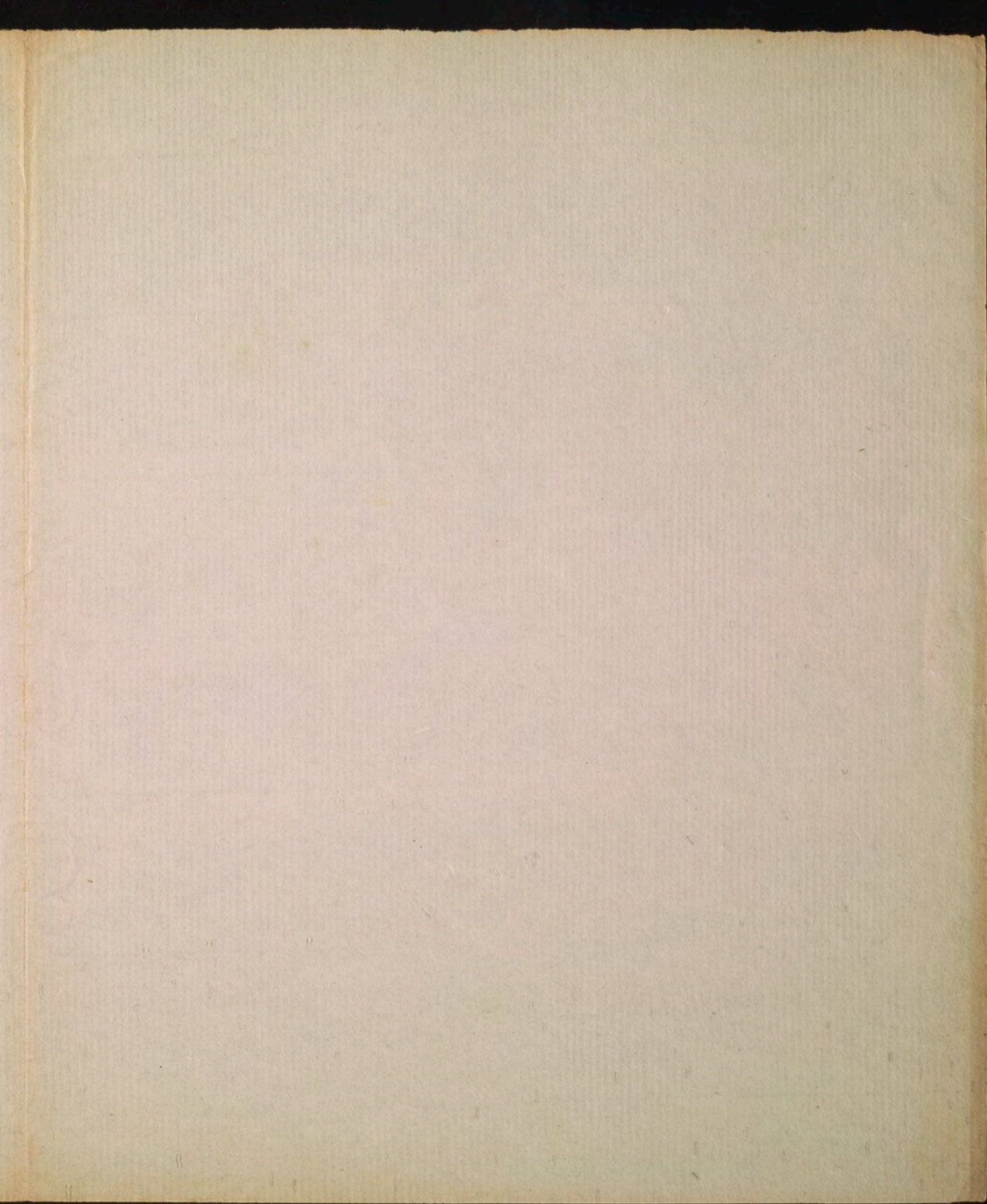
shall hereafter become the subjects of
your ~~attention~~ care in the practice of
medicine.

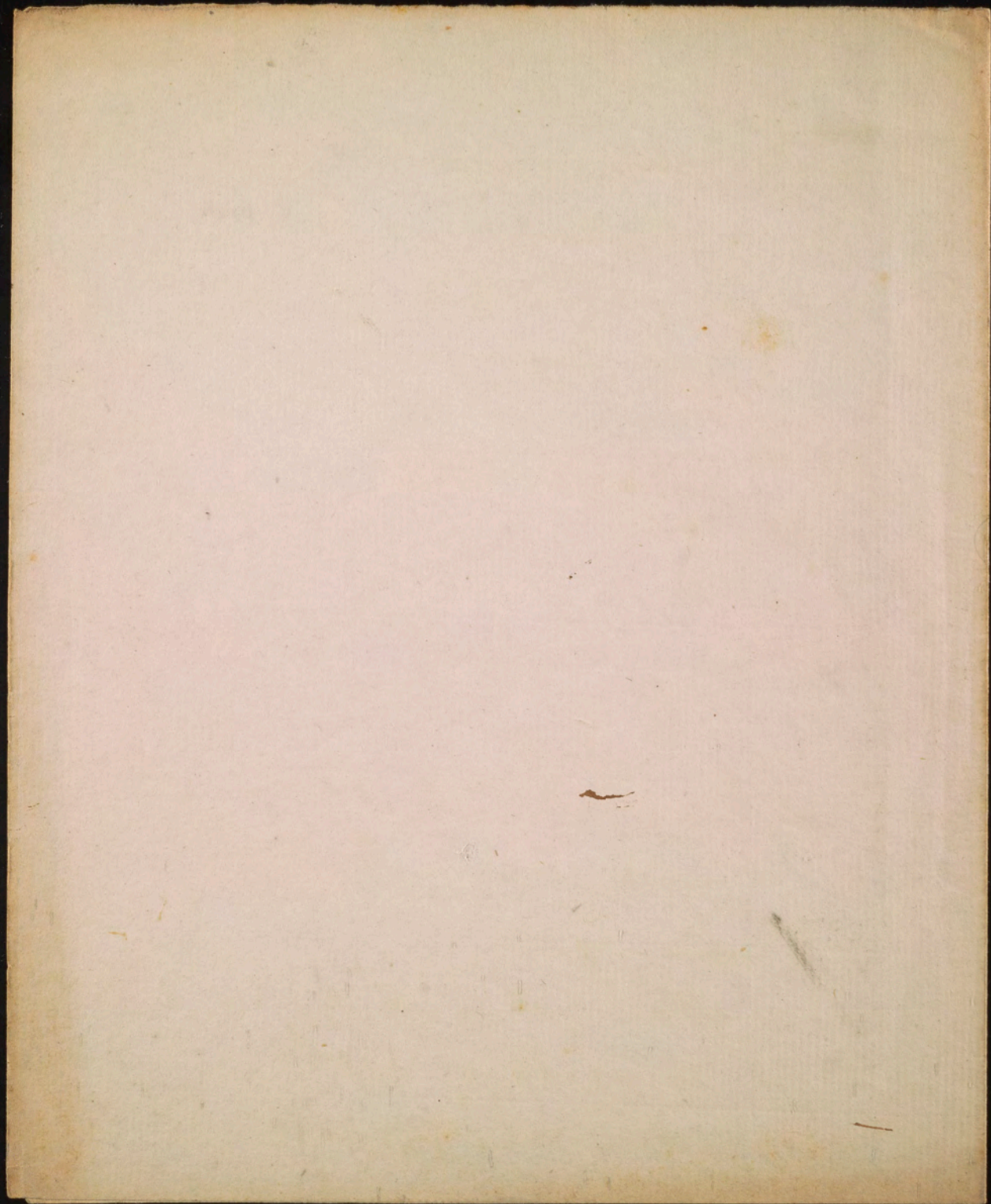
[Faint, illegible handwriting on aged paper]

with the profuse sweats which were
discharged from their bodies under their
agency, of from thirst and ~~the~~ the
inhalation of bad air. —

4 Bathing the body in salt water. It:
by its action upon the skin's
opens the pores of thirst, ~~and~~ some
of the ^{vapor of the} water is ~~a fresh fluid~~ which
is always fresh) is probably inhaled
by the lungs. not absorbed by porous skin
a coat of mail.







~~The means which are intended to~~
 To protect ~~us~~ from the injuries of
 an open sky, and inclement weather,
 houses have been the habitations of ^{man in his}
 civilized state ~~ever~~ in all ages & countries. ~~But to~~
 under them subservient for the pur-
 : poses for which they were intended,
~~that is the preservation of health & life,~~
 it will be proper to make a few
 remarks upon their ^{situation,} materials, ^{and} ~~their~~
 form, ~~so as far as possible~~ ^{a healthy} ~~as agreeable~~
^{also} ~~and upon~~ the means of keeping
^{cool, warm} ~~temperature of air,~~ and of defending them from
 those accidents to which they are exposed,
 and which endanger health & life.

✓ fourth front 1/3 lip. full.

The situation of a house, or of a
 Collection of houses, should command
 the utmost Attention. The Old Romans
 made it a practice to examine the livers
 of the animals that fed in the neighbour-
 hood of the places upon which they con-
 templated to build their houses, before they
 purchased them. If these livers were
 sound, it was considered as a sign that
 the Country around was free from putrid
 exhalations, for these affect the livers of
 dumb animals in common with the
 same part ~~of~~ in the human Species.
 Modern Observations has confirmed the
 propriety of this ^{Practice} in the United States,
 for it has been found in many instances

that inflammation, Schinus, or Ulcers
in the livers ^{of Domestic Animals} ~~are common in the fall in~~
~~any the prevalence is~~ bilious fevers in
the summer & autumnal months ^{in the lungs & pe-}
= ries.

Where this mark of a healthy situation
is not resorted to, a house should always
be sheltered as much as possible from ~~east~~ winds,
and low grounds, ^{and night damps.} ~~by the water~~ ^{by means of} hills or a
streams of water
Coppice of wood reserved from the forest trees,
or planted for that purpose. A situation
near a Creek or river is safe, only where
the water flows ^{along by} ~~over~~ a gravelly or sandy
shore. —

in the United States
Houses are usually built of logs recently
cut from the woods - here logs with the
bark hewed off them - boards - stones
and brick. —

Log houses built of logs with the
bark upon them soon decay from the
moisture that is confined between the
bark and the log. This decay or putre-
faction of the wood is accompanied with
an unpleasant ^{odor} smell, and frequently
all. The vapor ~~evolved~~ from which
forms this odor has is of an unwhol-
some nature. It rendered a whole
regiment of ^{American} soldiers sickly that were
confined in huts made of ~~new~~ logs
the second year after they were erected,
in the year 1792 upon the

in the month of

It was a very small party of 10 persons
and I was the only one who had been
before. The party was made up of
some of the best of the party - and
the result was a very successful one.

The party was made up of 10 persons
and I was the only one who had been
before. The party was made up of
some of the best of the party - and
the result was a very successful one.

The party was made up of 10 persons
and I was the only one who had been
before. The party was made up of
some of the best of the party - and
the result was a very successful one.

They should ~~now~~ therefore be avoided as the habitations of men.

2 Thewed logs are more safe, - from the ^{more easy} escape of moisture from them in consequence of the bark being taken from them.

3 Houses ~~are~~ built of boards thoroughly seasoned are generally healthy, ~~while~~ ~~they continue to be found~~ when the boards decay, they emit an exhalation which has been known to produce remitting and intermitting fevers. This decay may be prevented for many years ^{not} by being painted, provided it be done ^{until} ~~after~~ they are thoroughly dry. ^{Unless} ~~if~~ ^{this be} ~~not~~ attended to, the painting, by

V They are rendered ^{cooler} ~~warm~~ in Summer & warmer in winter by filling the space between the inside and outside boards with ~~sawdust~~ shavings or sand. - This ^{is} ~~is~~ ^{also} ~~is~~ destroyed by water soaking - how

VI This is the case in a more especial manner with stone for some time after it is taken out of the ground, for the vegetable and mineral matters which adhere to it undergo such changes from the action of air upon them as to emit an unhealthy

- Vapor. This source of disease was so universally admitted in Ancient Rome that a house was never inhabited by her wealthy Citizens until after it had been built one year.

VII It is customary in some places to

Confining the moisture within the
boards, accelerates their decay. ^v

4 Brick Stone and brick ^{masonry and} ~~conspire~~ ^{the}
~~are~~ durable houses, ~~and~~ ^{where} they
are dryer before, than after they are
plastered from ~~the~~ ^{the} their absorbing
the moisture that settles upon them.
But they are not the more healthy
upon this account, ~~for~~ ^{for} for matters
capable of putrefaction lodge in their
interstices, and thus infect the air of
the house. ^{exhalation of this vapor} It is by preventing the
probably, that plaster and ^{frequent} white wash-
^{ing} ^{found} ^{ing} ^{apost}
~~have~~ ^{been} in all countries to prevent
^{in protecting} ^{houses} ^{houses} ^{healthy} from those
^{diseases} ~~from~~ which are generated by domestic
~~causes~~ filth.

a house should always, when it is practicable,
be placed upon an elevated piece of ground. ~~The~~
~~the~~ ~~front~~ ~~part~~ ~~of~~ ~~the~~ ~~house~~ should
be exposed to the South in the United States.
This position renders a house cooler ^{in summer} and
warmer ~~in~~ in winter from the ~~any~~

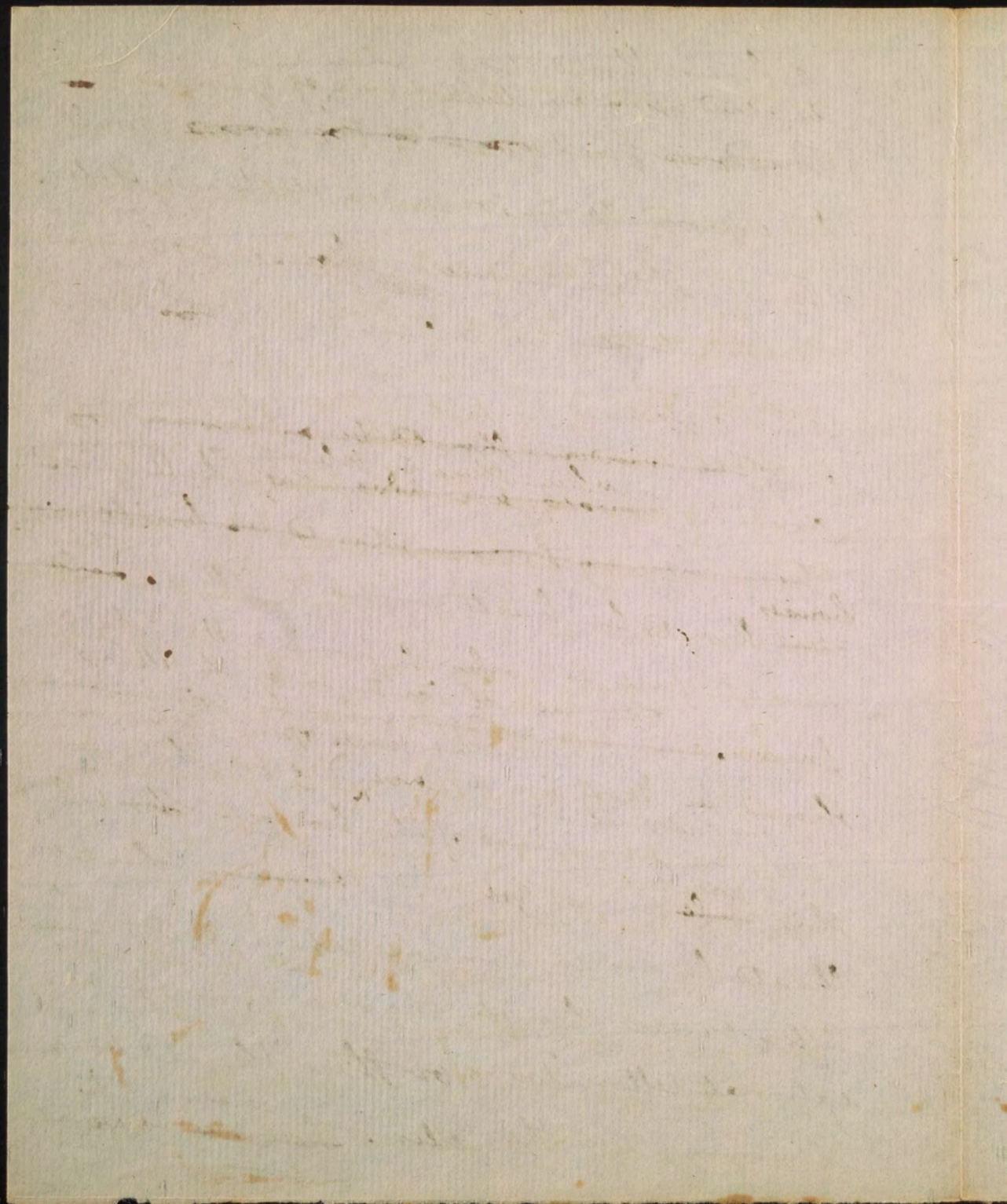
other exposure.

In the ~~the~~ ~~windows~~ ~~should~~ ~~be~~ ~~as~~ ~~far~~ ~~as~~ ~~possible~~
country houses ^{where there is plenty of room} ~~are~~ ~~an~~ ~~advantage~~ ~~will~~ ~~arise~~
~~from~~ ~~having~~ ~~houses~~ ~~should~~ ~~be~~ ~~built~~ ~~with~~
~~houses~~ ~~should~~ ~~be~~ ~~built~~ ~~without~~ ~~cellars~~. ~~and~~ ^{they}

generate foul air ~~which~~ ^{from a variety of}
^{the usual contents of the cellars}
sources, ~~and~~ ~~they~~ ~~render~~ ~~a~~ ~~house~~ ~~cold~~ ~~in~~ ~~winter~~.

should be kept in a Cove ^{with a small opening to communicate} ^{Dug for the purpose,}
with the external air
in the neighborhood of the house. ~~the~~ ~~where~~
this ^{precaution} ~~is~~ ~~not~~ ~~followed~~, ~~the~~ ~~case~~ ~~there~~

should be no communication with ^{the} ~~any~~
cellar except through the medium of an
external cellar door, or there should be a
chimney in the cellar. ^{from the} ~~The~~ ~~advantage~~ ~~of~~



~~a chimney~~ ^{is} constant renewal of the
air by means of a chimney, provisions are
less apt to become mouldy than where this
is not the case, and the cellar is rendered a
less ^{urgent} ~~common~~ cause of disease. In cities this
practice should be universal.

Large Rooms ^{with high ceilings} are ^{hotter} ~~cooler~~ in ^{summer} ~~weather~~ than
small ones. ^{in the} ~~high~~ ^{the} Dome of St
Paul's Church in London ~~is~~ the mercury is
always 8 degrees lower in ^{summer} ~~hot~~ weather
than in any of the common dwellinghouses
in London. In the Bank of Pennsylvania it
descends degrees in the same season, below
any its standard in every other part of the
city of Philadelphia.

The windows of a house should open
in a direction opposite to each other. They
will be cooler in summer & warmer in
winter, when they descend to the level of the

✓ Ground floors have been found to be more
healthy than those of wood. They act
by absorbing filth and heat. The ~~low~~
comparative healthiness of the Chinese
in their crowded cities, and of the Indians
in their filthy wigwags, depends in
part upon their eating - sleeping - and
living upon ground floors. Count Laxe
first suggested the ^{advantages} ~~great healthiness~~ of
^{earthen} ~~ground~~ floors above wooden floors for
military hospitals. They were adopted
with great success by the American
Army during the revolutionary war.
They ^{should} ~~may~~ be used in Kitchens in
warm weather, at which time they
are ^{most necessary} ~~calculated~~ to be most useful.

- 3 V The water used by a family, ^{is sometimes} ~~is~~ ^{impregnated} ~~times of an unwholesome quality from~~
~~a~~ naturally or accidentally ~~impregnation~~
with some mineral substance. A
large family suffered for for many
years in Worcester the late Dr. Wall
tells us from paralytic & several Com-
plaints. after the death of eight of
them it was discovered that their
sickness and mortality arose from
drinking water from a pump in
which the bucket was placed in a
lead cylinder, ^{and which exhibited} ~~which was easily~~
marks that the water had acted upon
it. we also from Dulrell ~~that~~ 5 puthⁿ on water.
4 Air which has long been confined in
a room house. ~~The~~ Its hurtful effects
may be prevented by opening and air-
ing it before it is ~~again~~ occupied.
~~Intanks are often~~ The same

by the attending physician
cause of the fever was pointed out ~~to the~~
family of the family.

2 ~~stagnating~~ water from rain or other sources
stagnating in a Celler. Many families have
sickened, and some of its members ^{have} died from
this cause. It may be obviated when it
arises from rain by or from subterraneous
springs by above the floor of the Celler, by
cutting a Canal round the house, and
covering it with boards and earth, or
~~the~~ building an Arch over it. If it arise
from a spring in the Celler it may be
removed by Digging a well in it. The
water, ~~will remove~~ if not abundant, will
soon concentrate itself in this well in
which ^{if it should not be} it is inoffensive, it may be
made so by covering it with boards, or
erecting an Arch of brick or stone over it.

precaution should be used every
Saturday with Churches that have
the day before they are appropriated
to public worship especially in warm
weather.

~~After~~ As many Diseases arise from
^{excess of} the coldness, dampness & want of
 Cleanliness in houses. it will be proper
 to mention the means of preventing
 them from each of those Causes.

1 There have been many disputes con-
 -cerning the effects of cold upon the
 human body ^{in producing} ~~as the Cause of~~ Diseases.
 The controversy may be settled in a few
 words by remarking that where the
 Action of the Cold is uniform upon the
 human body it is not in a certain
 degree unfriendly to health & life. The Indians
 do not suffer from it only because they
 are constantly exposed to it. In John
 Sinclair mentions the history of a Dr.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

Lyne a Physician in Ireland who enjoyed ^{living} ~~enjoyed~~
uninterrupted good health until he was
85 years ^{old} in a house in which the doors
and windows were constantly open. He
used to say "a house ~~was~~ ^{not} could be healthy,
unless a dog could get under the door, & a
bird get in at a window." A Citizen of
Philadelphia once told his guests ^{who} ~~of his~~
~~the father of this house~~ ~~that while~~ complained of
ⁱⁿ the coldness of his dining room, that it
gave him a great advantage over his
fellow citizens, for as there was no dif-
ference between the temperature of his
room, and ^{that of} ~~the~~ ^{air in the} street, he never caught
cold by changing his atmosphere. Good
health upon the terms that have been
mentioned is purchased at a high and
precious price. It requires perpetual
vigilance and constant life to ^{protect} ~~guard~~

the body against being surprised by
 a warm room, and ~~admitting the~~
~~but~~ It secludes from all society, not
 disposed to acquire a similar ^{habit} degree of
 insensibility to cold, and admitting this
 habit to be acquired, it places a man
 upon a footing with the farmers, ^{house} ~~man~~
 that had been taught to ~~live in~~ by his
 master to live without eating. The
 experiment succeeded, but the horse
 died immediately afterwards.

It is more agreeable to nature, ^{&c.} to
 the customs of civilized life, to ~~and it is~~
 certainly ~~more~~ ^{disagreeable} pleasant, to live above
 the painful degree of cold, ~~which~~ in our
 houses, and [&] it certainly contributes
 to health and longevity, to subject the body
 to the alternate action of heat & cold,

The first of these things is
the fact that the world is
not a perfect place. It is full of
imperfections and it is full of
suffering. But it is also full of
beauty and it is full of hope.
It is a place where we can find
meaning and purpose. It is a place
where we can grow and learn.
It is a place where we can
make a difference. It is a place
where we can live and love.
It is a place where we can
find our place in the world.
It is a place where we can
be happy and content.

more especially when its extremes are
limited by the ordinary heat of the houses,
and the ^{ordinary} cold of the ~~ordinary~~ winters of the
United States. Dr. ^{Huxham} ~~Hillary~~ ascribes the healthi-
ness of the climate of Great Britain to its
variableness which destroys the dangerous
uniformity ^{sensibility and} ~~calm~~ in the actions of the ~~the~~ human
body. ~~I conclude~~ There should be no medium
between ~~us~~ a pleasant warmth in our
houses, and even more cold. All half way
^{practices} ~~systems~~ upon this subject, are ~~more~~ more
unfriendly to health than either
of them. I need therefore to mention
the means of ~~the~~ promoting warmth
in our houses. These are
~~making the doors ~~stop~~ and windows~~
~~close by means of strings and removing~~
~~the doors of closets at a distance from the~~
~~fire place.~~

[The text in this block is extremely faint and illegible, appearing to be a list or series of notes.]

on warm ~~water~~ Bath

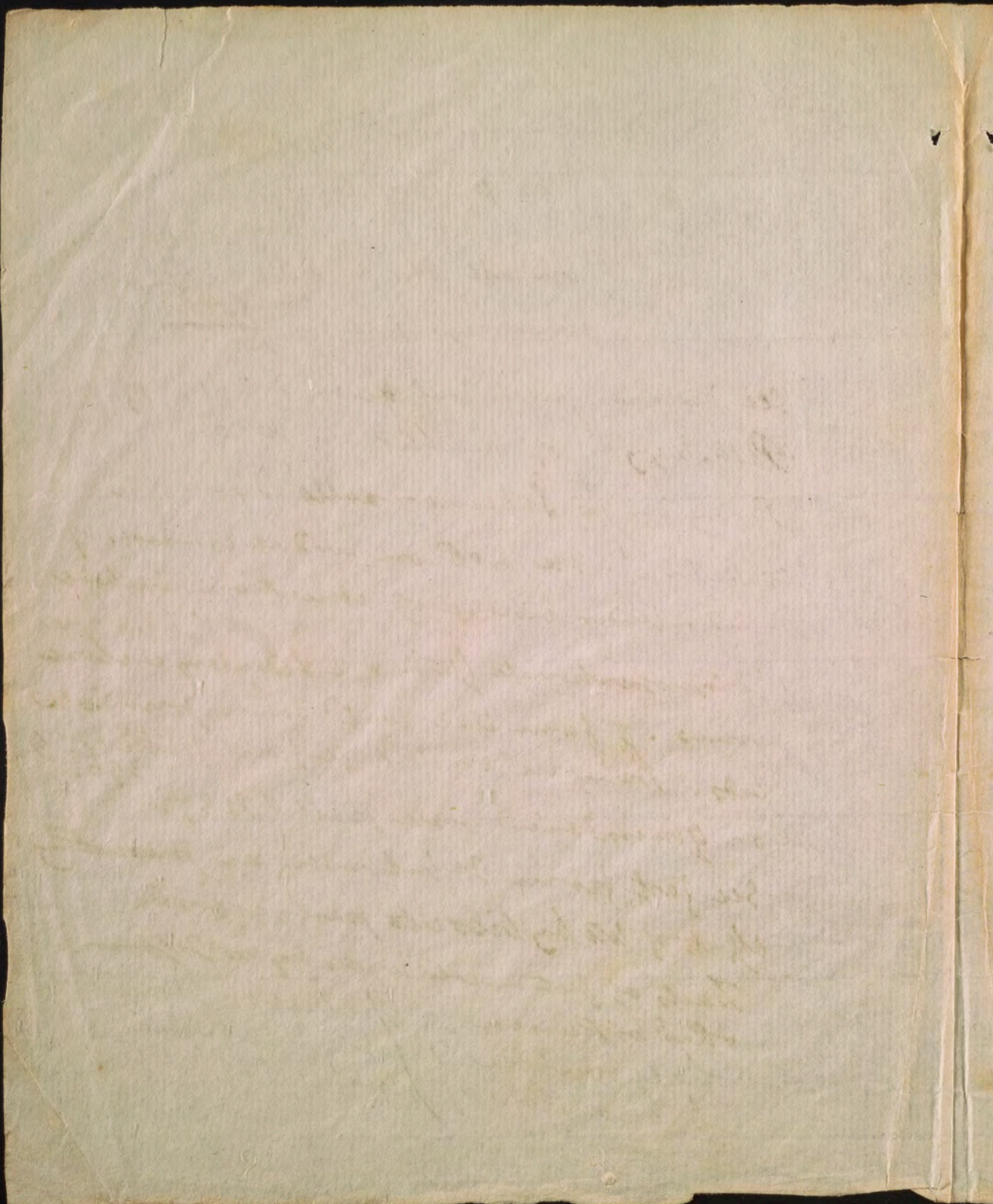
see p 215 of Comptone
book

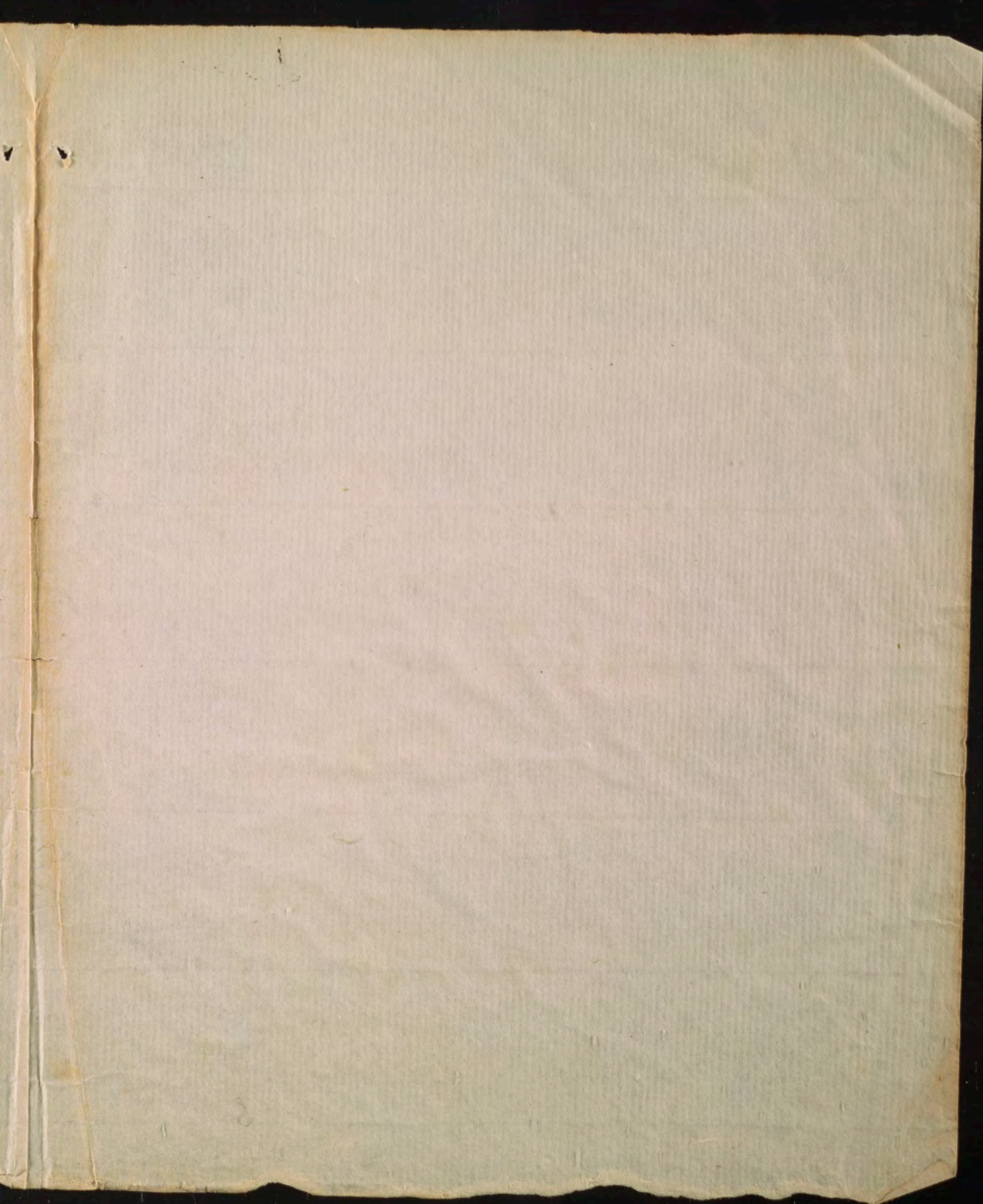
on all the predispositions
run up all in ^{one year} ~~time~~

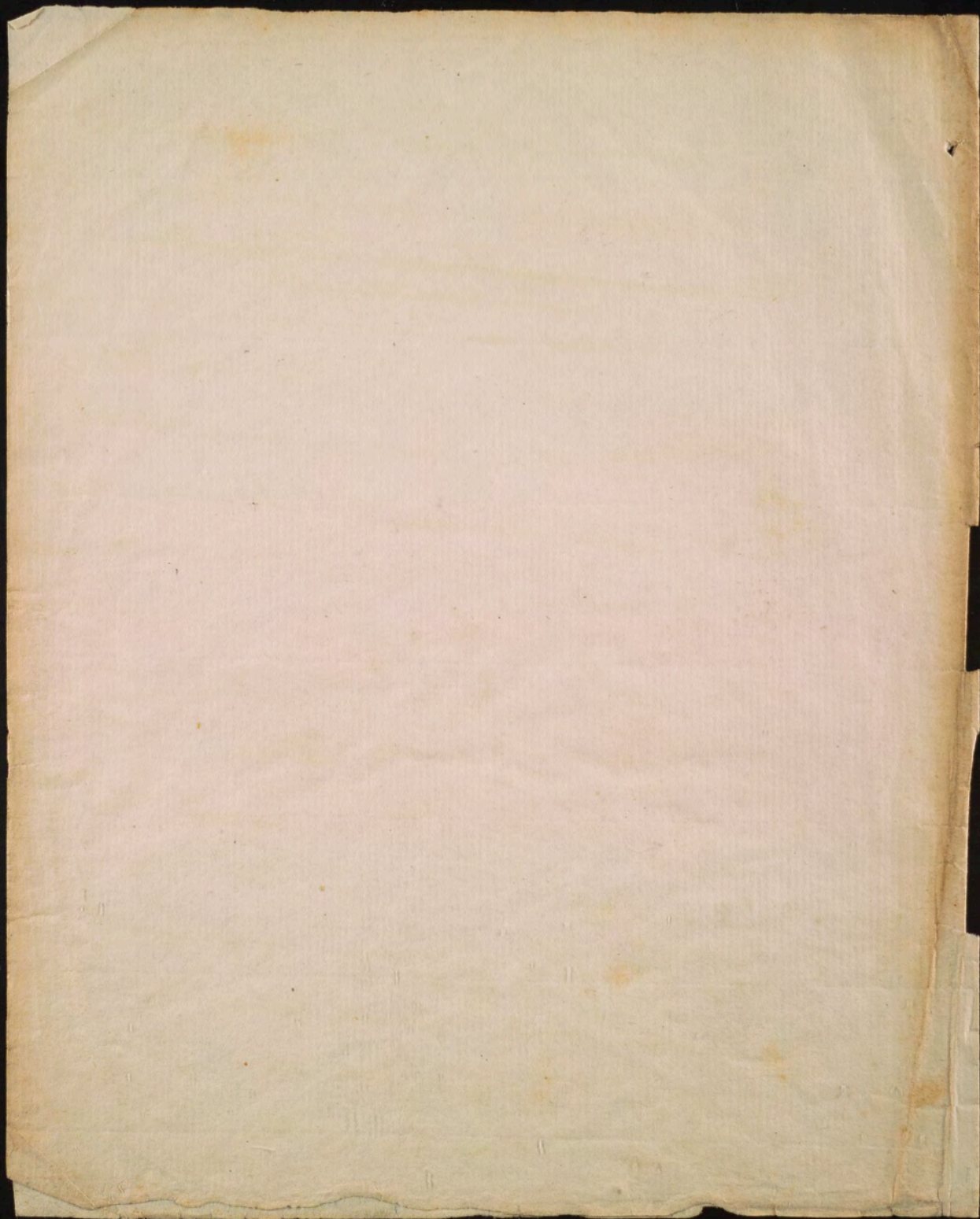
see diseases from diet &c in no 4.5 of
Pathology - of Weather in no 6.

Bring in to "Salmonscalls" Disease of
Education". see no 6 on undue exercises of
mind. Under Disease of Education include
1. Disproportionate Studies 2 Secondary ^{not to close} school
rooms. 3 from Vice with some principles
also! Bring in on old age from Path 2 p 39
on Government - see Path 2 p 39
396.

See fact from Dr. Lushington on preventing
effects of cold by Oils & its parts exposed
Tracts of feet in cold water by Mr. Jefferson
also in Pains. ^{On cold - visceri &c}
half done breed fixed in Africa
cause flow of digestion.







1. By means of fires. ~~They should~~ ^{These} ~~close~~
 are either open, or confined in ^{stoves}.
~~of iron, iron built or of clay~~ Open
 fires placed ^{upon hearths with} chimneys contracted
 in the manner directed by Court
 Rufford throw out a great deal of
 heat. ~~and increase~~ the heat is increased
 by suffering the ashes to accumulate
 in the fire place to such a degree as to
 prevent the wood coming in contact with
 it. In a room thus ~~exposed~~ ^{exposed}, the
 venerable Dr Franklin passed the last
 winters of his life in Philadelphia. The
 heat is diffused more extensively through
 a room, ~~and is more~~ when the ~~wood~~
 fuel is placed in ~~an~~ open stove, such
 as bear the names of their inventors

Franklin and Rittenhouse.

Close Stoves have many Advantages over open fires. They diffuse the heat more equally, ~~and~~ by which means it is applied to every part of the body. They save a great deal of labor ~~in and expense~~ ^{in cutting and hauling wood,} ~~in fact~~ man and beast, and a great deal of expense in cities in purchasing it. They save ~~time to~~ all that time to do domestic industry which is lost in waiting till a ~~room is fed~~ ^{room is} supplying an open fire with wood, and in ~~or burning~~ ^{removing} every hour or two from a remote part of a room to warm the ~~f~~ hands and feet. It is to be regretted that the heat ^{of a close stove} ~~thus obtained~~, is disagreeable to many people produces head ach, languor, and sickness in many people. They ~~may~~ ^{have} all been prevented in many instances

4 In deriving warmth whether from an
open fire, or a stove great should be
taken to avoid constantly ^{exposing} ~~occupying~~
some ^{side} ~~part~~ of the body to it. It will be one
side by this means becomes more stimulated
than the other, and a foundation is thus
laid for several diseases.

4 The under part of the floors of those
rooms which are immediately above
the cellar, should be lathed and plastered;
~~much~~ ^{as} the warmth of those rooms
is thereby ^{considerably} ~~very much~~ increased. It will
be increased still more by filling the
space between the floor and the lathing
with shavings, ^{fine dust} ashes or sand. —

by placing a bowl of water upon the
 floor. The evaporation of this water tem-
 -pers the heat, and communicates
 something to the air which obviates
 its unpleasant and offensive qualities.

2 The fuel for fires in the United
 States is wood and Coal. The vivid flame
 of heavy wood has been known to pro-
 -duce inflammation of the eyes. The
 vapor emitted by Coal has been found ^{to}
 increase a ^{cough} ~~to the lungs~~. They should ^{be}
~~avoided by persons subject to those diseases.~~

3 The heat of a room in what ever way
 it is produced is confined in some countries
 by double doors and windows. In the United
 States what is called lising, or nailing the
 of cloths to the sides of the doors and windows
 is resorted to for that purpose. —
~~part of the floor of those rooms~~ ^{are} ~~that floor part of a floor~~ which ~~are~~ ^{are} impudicly
 above the ceiling should be lathed & plastered. A

[Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side.]

The excessive heat of a house in summer should be moderated by the following means.

- 1 In the Country by piazzas and trees
- 2 In Cities by ~~shutter~~ closing ^{not only the} ~~the doors and~~ windows ^{but the} window shutters of ~~the house~~ during the day of all those rooms which are not occupied in the day time. A room thus defended from the sun is ^{Depos} cooler than a room that is exposed to it. The windows should be opened after night when they are to admit cool and fresh Air.

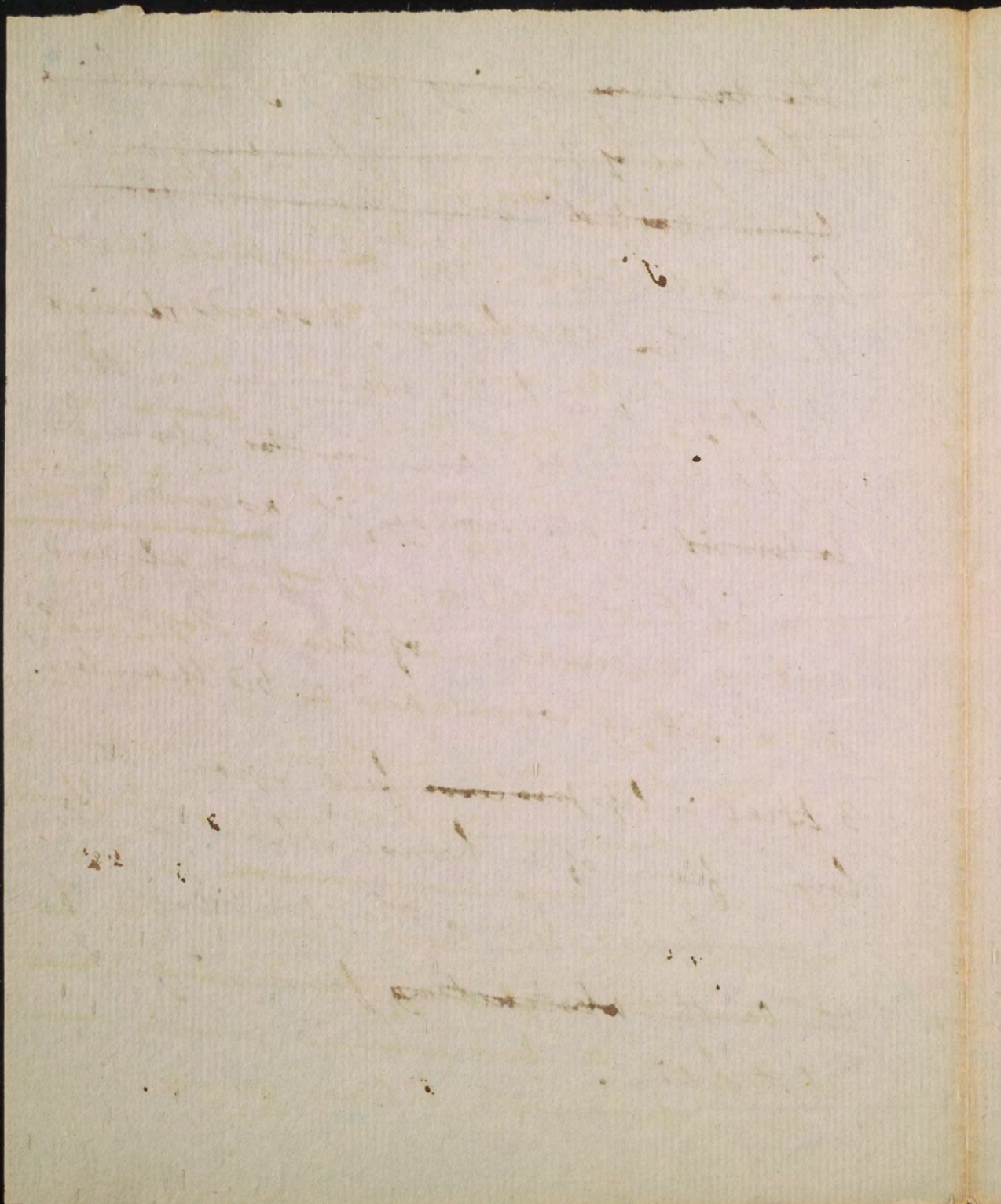
3 By keeping the fire places and Chimneys open. By this means a constant circulation of air is kept up in a settling room and a bed chamber, for the air being ⁱⁿ above and below the chimney than the air that is in it descends by its weight in the

✓ It is in consequence of this, that
the coldest seat in a room is near
to a Chimney ⁱⁿ ~~the~~ hot weather.
Hence, one third of cooling a room.

~~the day time during the day, and being~~

~~The heat of summer when expanse is~~
~~opened cooled cooler than the air~~
 being cooler than the ^{external} air above it, or
 the air in the house, descends during
 the day, and being warm in the
 night than the air in ~~the~~ above, it
~~ascends~~ it in the house, it ascends during
 the night, and thus a perpetual and
 cooling circulation of air is kept up
 in a sitting room and a bed chamber.

3 Heat is less ~~perceived~~ felt upon the
 lower floor of a house than in its
 upper stories from the contiguity of
 the earth abstracting ~~from~~ its
 abstraction.



Chamber is essential to health in every house. ~~It~~ It should extend

1 To the Sinks where ^{a cellar} ~~the~~ Kitchen has made them necessary. They are rendered inoffensive by means of what are called in London Sink traps - that is, by ~~two~~ a small well communicating with a deep one by means of a grate which ^{permits no-} ~~inter-communication~~ - allowing but water to pass through it, and which penetrates into the earth. The matters retained by the grate, are easily taken away by the hand once or twice a week. When this contrivance is not used, Sinks should be cleaned ~~and every month~~ as soon as they emit the least offensive odor. Let none the neglect of this direction, ~~not~~ ^{have often} early servants, but ~~a whole family~~ have been infected with bilious fevers.

2 The offals of the kitchen whether of vegetable or animal nature where cows, or hogs are not ~~to~~ at hand to consume them, should be thrown into the fire. In destroying those matters in this way, we imitate the practice recommended by in the Levitical Law

3 It is common to throw the ~~linen~~ ^{body} and bed linen of a family into a basket, or to enclose it in a bag, where it is suffered to remain until it is taken out to be washed. This linen is often impregnated with perspiration, & sometimes arises from sweat in consequence of which it undergoes a change

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is written in cursive and spans approximately 15 lines.]

When Deprived of Air which Disposes it
to produce ^{the same} ~~that~~ kind of fever which is
generated in jails and prison ships
from filth and confinement. Washer
women have it is said been thus infected
with that fever. The ^{cause} ~~source~~ of it should
be obviated by exposing the linen to the
Air ~~in~~ ⁱⁿ an open room or closet
before it is sent to ^{be} ~~the~~ washed. —

3 Every ^{room & closet} ~~part~~ of a house as well as the
keller and kitchen should be frequently
~~open~~ aired, and if necessary, cleaned. It
would be a good practice if the Inspectors
of nuisances in our cities ~~would~~ were
permitted to imitate the ~~practice~~ conduct
of Dean Swift who after entering the
^{drawing room} ~~parlour~~ of a female friend with

whom he was invited to dine, refused to sit down, but suddenly walked up stairs, and examined every room and closet in her house. Upon returning into her ~~private~~ drawing room, he said: "I perceive madam, you are a good house wife. I give you no credit for the neatness and cleanliness of this room in which you expected to see company, but I have found ~~all~~ every part of your house in the same neat and order."

4 Rats and mice by dying in the hollow places of walls emit ^{a putrid} ~~an~~ offensive odor which is dangerous to health. ^{They} ~~They~~ ^{and their} ~~throat~~ ^{throat} be destroyed by traps, ~~as~~ ^{and then} ~~driven~~ ^{driven}

V ~~and~~ It was probably to prevent the
extensive mischief they are capable of
doing, that even the fight of them is
all so generally ~~attended~~ with fear
or hatred in all ranks of people.

There are ^{three} ~~four~~ ways of destroying them

1 by means of Cats. 2 by means of traps. 3 by ~~putting~~ mixing Arsenic with such aliments as they are fond of, and placing them in their way.

This method of destroying rats should never be adopted. The poison intended for them

has sometimes been eaten by Children and with fatal consequences. Moreover

when the rats when killed in this way, putrify in their holes, and thus

infect a whole house, ^{with} But they may be driven out of a house

4 By ~~tying a bell around the neck of one~~ ^{catching} ~~of them~~ ^{catching} ~~and~~ ^{catching} ~~giving~~ ^{catching} ~~such~~ ^{catching} ~~a mark of~~ ^{catching} ~~deformity upon a living rat and letting~~ ^{catching} ~~him go afterwards. Shaving or burning the~~ ^{catching} ~~hair off his skin has been found to~~ ^{catching} ~~answer this purpose. All the rats of a~~ ^{catching} ~~house fly from him.~~ ^{catching}

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

mosquitos by their bites produce inflammation,
 sores and fevers. ~~This~~ ~~these~~ ~~flies~~ ~~annoy~~ ~~us~~
 by their bites, and ~~save~~ ~~they~~ This generation
~~near a house~~ should be prevented by running
 all stagnating water from near a house.
 This ~~to~~ annoyance may be obviated in a
 certain degree by protecting those parts of the
 body which are most liable to suffer from
 them by means of coverings of leather, or in the
 day time, and by what are called mosquito
 curtains during the night.

Flies though seldom or never a cause of disease,
 are sources of uneasiness ~~to~~ and vexation to most
 people. They are destroyed by ^{first} ~~attracting~~ them to
 a board ~~and~~ covering with molasses and com-
 =municated with the ceiling of a room, ^{or a piazza,} and then
 exploding gun powder under them. They may
 be kept out of a bed room by keeping it shut up
 in the day time, or they may be driven out of it
 by means of a handkerchief or napkin after night.

rats when thus destroyed, or driven away.
The return of ~~them~~ should be prevented by
repairing the injuries which time does
to all houses. Whenever they appear,
they are a call for the mason ^{or} ~~and~~
the Carpenter. They are kindly sent to
~~teach us Democracy and Cleanliness.~~ They
may be considered as the first warning of
the approaching waste of our property, &
as the punishment of the want of clean-
-liness. ~~They are in the latter view of them,~~
the lice of our houses and furniture.
5 Bugs by ^{their poisonous bites & peculiar} ~~prosecuting~~ ^{and by their} ~~stings~~
often sometimes ^{prevent sleep and thus} ~~disorder~~ ^{bring on diseases}
upon weak and insupportable habits. They
are like rats and mice the punishment
of bad housekeeping. They are to be prevented
by Cleanliness. The following

Diseases of the eyes are often contracted
 by means of smoke; and Colds are
 sometimes taken by sitting with our
 windows or Doors partly open, to let it
 out of our houses. It is of consequence
 therefore to point out its causes, and its
 remedies. - Smoke is retained in a
 room instead of being carried ^{off} by a Chim-
 -ney, ~~by the follow~~
 1 by the room being too small ~~in~~ in
 proportion to the size of the fire place.
 This is only to be cured by contracting
 the fire place.
 2 by the room being ~~too~~ ^{so} tight as to exclude
~~the fresh air~~ all air through the sides of the windows
 and door. This often occurs in new

✓ 3. By the door of the room being placed
so near the fire place as to ^{prevent} ~~pour~~
~~pour~~ ~~too great a quantity~~ of air upon
it ~~at once~~ faster than it can
be supplied, by which means it drives
the smoke into the room. If it ^{cannot} ~~be~~
~~prevented~~ ^{prevented} ~~by removing the door to a~~
~~greater distance from the fire place,~~
or by causing the ^{door to} open from the
fire, the door should be removed to
a greater distance from it.

houses, and ceases upon the shrinking of
the wood of which the doors & windows
are made. Smoke from this cause is
cured by a Ventilator, or a movable
pane of glass in the upper part of the
room door. But it ceases of itself upon
the shrinking of the wood of which the
doors and windows ^{of the room} are made. V

4 By the large fire of the funnel of the
Chimney immediately above the fire
place. ~~Smoke from this cause is~~
~~Count Rumford has this~~

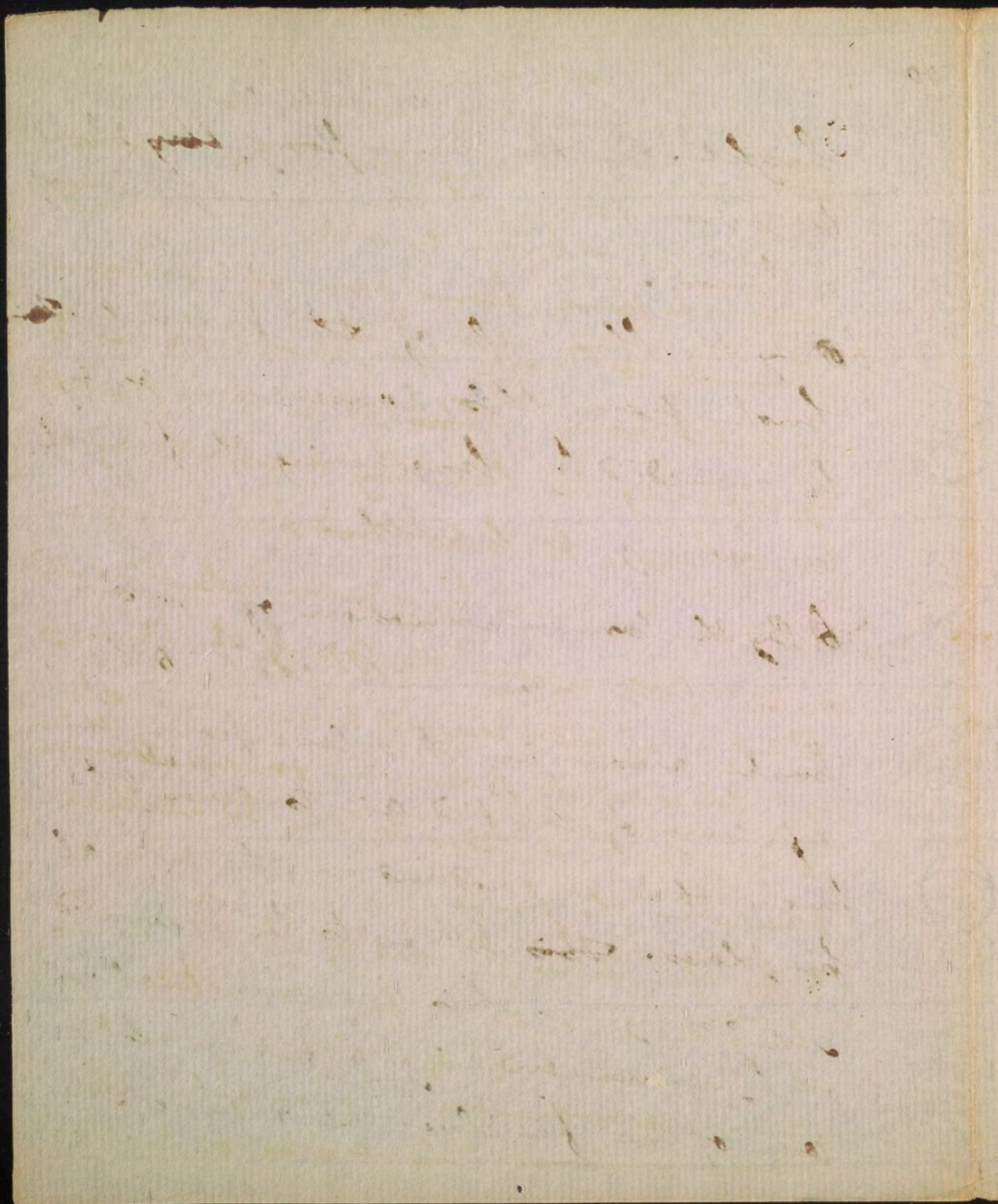
~~was~~ prevented by contracting this
funnel agreeably to the plan advised
by Count Rumford, and adapted with
general success in many parts of the
United States. The

5 By a want of proportion between
the width of a Chimney and its

the funnels ^{of} chimneys
 light. In the lower story, ~~they~~ they should
 be wider than in the upper stories of
 a house.

60 By the throat of the funnel. This
 smoke from this cause can only
 be remedied by lengthening the funnel,
 or opening its width.

70 By the communication of two or
 more chimneys with each other.
 Smoke arises in this case from a
 deficiency of rarefied air to carry ^{up all} the
 smoke that is produced in the several
 fire places. ~~this~~ It is to be prevented
 by stopping up this communication,
 or by never making a fire in but
 one of the fire places at a time.



the tops of neighbouring houses,
§ By ~~the Chimney~~
or hills projecting above the top of a
Chimney, which enables the wind
~~when it flows blows from a certain~~
~~direction~~ to drive the smoke backwards
into a room. ~~This~~ It is to be prevented
by raising the Chimney above the adja-
cent houses or hills; ~~and~~ but if this
cannot be done by placing what is called
a barn cap upon the top of the Chimney,
that is a cap covered above, and closed
on three of its sides, and so made ~~to~~ ^{so as}
to oppose those sides to the wind that
occasions the smoke.

§ By the ~~Chimney~~ funnel of the Chimney
being narrower above than it is below, or
by the irregularity of its course upwards.
~~This is a very frequent Cause of Smoke~~
~~from a Chimney The Cause of Smoke~~

from this cause is obviously from the
 resistance which the ~~the~~ converging sides of
 the Chimney give to the smoke ^{and at}
~~those places where~~ to the diminution of the
~~resistance to the diminution of the action~~
 action of
 of the rarified Air ^{upon it.} ~~upon it~~ acts with
 a diminished force ~~upon it~~ the remedy
 for smoke from this cause is to
 lessen the resistance ^{that is given to} to the smoke ~~by~~ its
^{upwards and} passage out of the Chimney, ~~is to sealing~~
 the Chimney, as wide above as it is
 below, ~~or perhaps a little~~ It will more
 effectually prevent carry off the smoke
 if it made a little wider.

Philad

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4. To prevent fire ascending from the roof, or ascending from the first story, form by means of blankets, a kind of dam on each of the intermediate stories, near their staircase, that shall confine the water that is thrown upon the roof, or into the windows. It will effectually check the progress of the fire downwards or upwards in brick and stone houses.

5. To prevent fire spreading to adjoining houses, cover them with wet blankets.

6. To extinguish fire in a chimney, shut the door and windows of the room. Throw a quart, or more of common salt into the fire. Hold, or nail a wet blanket before the fire place. If these means fail, throw a wet blanket down the chimney from the roof of the house. ✓

There is a method used in some countries of glaizing chimnies when they are built by burning common salt in them, which renders them so smooth, that no soot can adhere to them. Chimnies so constructed can never take fire.

Ladders are commonly used as the means of conveying persons from the windows of houses on fire. Would not a long and stiff pole, with a rope fixed at its upper end, be more portable, and convenient for this purpose?

✓ At the same time
close all the fire places
that communicate with
the chimneys with the
chimney on fire.

12 Protect your house
from fire, ~~by~~ ^{from} lightning by means
of ~~a rod~~ an electrical
conductor.

connected in

Mr. John Westley when a
en out of a window in his fa-
hilst it was in flames, by one
upon the shoulders of another.
may be used to rescue persons
story of a house on fire, where
cannot be had with sufficient
or expedition.

A WATCHMAN.

ure of Pennsylvania

Life ~~and~~ ~~as~~ is often endangered from
fires, ~~and~~ ^{often} health is ~~bitarious~~ ^{often} impaired
by burns, bruises, and the terror con-
=nected with ^{the destruction of a house by fire,} ~~fire~~ where life is not de-
=stroyed. ~~To~~ To obviate these evils, ~~I shall~~
following directions which were first pub-
=lished by the Author in ^{Claypool's} American Daily
Advertiser ~~then~~ on the 3^d of February 1799.

Sudden death, or distressing diseases are
sometimes brought on by means ~~by~~ of
strokes of lightning. They are to be prevented
when ~~out~~ in the open air, by avoiding the
shelter of trees. In a house they are to be
prevented by means of ~~an~~ electrical conduc-
=tor, but where this has not been confide-
=red as an essential part of a house, care
should be taken during a thunder storm

*Close all the fire places connected in
one Chimney.*

Philadelphia, February 3.

For the American Daily Advertiser.

DIRECTIONS

For preventing Calamities by

FIRE,

*Recommended to all HOUSE-KEEPERS, to be
pasted up in their Kitchens, or other parts of
their Houses.*

✓ **K**EEP your Chimnies and Stove-pipes
clean by sweeping them at least once
every month.

2. Never remove hot ashes in a wooden
bucket, or a wooden vessel of any kind, and
look well to the ash hole.

3. After sweeping a hearth, see that the
hearth brush does not retain any particles of
fire, before you hang it up in its usual place.

4. Oblige all your servants to go to bed be-
fore you, every night, and inspect all your
fire places, before you retire to rest.—For
fear of accidents, let a bucket of water be
left in your kitchen every night. The writ-
ter of these directions once saved his house
from being consumed by fire, by this precau-
tion.

5. Do not permit a servant to carry a can-
dle to his bed room, if he sleeps in an unplas-
tered garret.


6. Cover up your fire carefully every night
in ashes. Let the unburnt parts of the bil-
lets, or chunks of wood, be placed next to
the hearth, by which means no sparks will
be emitted from the wood. Pour a little
water upon the burning ends of the wood
which are not completely covered by the ash-
es. Place before the fire a fender made of
sheet iron. This contrivance was well
known in England many years ago, by the
name of a *coverfeu*. It has lately received
from a top being added to it, the name of a
hood.

7. Remove papers and linen from near the
fire when you leave it, to a remote part of
the room.

8. Shut the doors of all the rooms in
which you leave fire at night. By thus ex-
cluding the supply of fresh air, you will pre-
vent a flame being kindled, should a coal or
spark fall upon the floor, or upon any other
combustible matter in the room. The smoke
which issues from this smothered fire will
find its way into every part of the house, and
by waking the family, may save it from de-
struction.

9. If sickness, or any other cause should
oblige you to leave a candle burning all night,
place it in such a situation as to be out of
the reach of rats. A house was once destr-
ed by a rat running away with a lighted can-
dle for the sake of the tallow, and conveying
it into a hole filled with rags, and other in-
flammable matters.

10. Never read in bed by candle light, es-
pecially if your bed be surrounded by cur-
tains.

11. Strictly forbid the use of segars in
your family at all times, but more especially
after night. May not the greater frequency
of fires in the United States than in former
years, be ascribed in part to the more gen-
eral use of segars by careless servants and chil-
dren? There is good reason to believe a house
was lately set on fire in Northumberland coun-
ty, by a half consumed segar, which a negro
woman suddenly threw away, to prevent her
being detected by her master in the unheal-
thy and offensive practice of smoaking. 

In case of fire, attend to the following di-
rections, to prevent, or restrain its terrible
consequences.

1. Do not open the room or closet door where

The famous Mr. John Westley when a
chile, was taken out of a window in his fa-
ther house whilst it was in flames, by one
man standing upon the shoulders of another.
This practice may be used to rescue persons
from the first story of a house on fire, where
other means cannot be had with sufficient
convenience or expedition.

A WATCHMAN.

Legislature of Pennsylvania

after night. May not the greater frequency of fires in the United States than in former years, be ascribed in part to the more general use of segars by careless servants and children? There is good reason to believe a house was ~~let~~ set on fire in Northumberland county, by a half consumed segar, which a negro woman suddenly threw away, to prevent her being detected by her master in the unhealthy and offensive practice of smoaking. ✓

In case of fire, attend to the following directions, to prevent, or restrain its terrible consequences.

1. Do not open the room or closet door where you suspect the fire to be, until you have secured your family, and your most valuable effects, nor until you have collected a quantity of water to throw upon the fire, the moment a fresh supply of air excites it into a flame. Where water cannot conveniently be had, try to smother the fire by throwing two or three blankets over it. A British sea captain once saved a king's ship by throwing himself with a spread blanket in his arms, upon a fire which had broken out near the powder room. He was pensioned for life, for this wise and meritorious act.

2. In case it be impossible to escape by a stair case from a house on fire, shut the door of your bed chamber, and wait until help can be brought to secure your escape from a window.

3. If safety does not appear probable in this way, wrap yourselves up in a blanket, hold your breath, and rush thro' the flames. If water be at hand, first wet the blanket.

4. To prevent fire descending from the roof, or ascending from the first story, form by means of blankets, a kind of dam on each of the intermediate stories, near their staircase, that shall confine the water that is thrown upon the roof, or into the windows. It will effectually check the progress of the fire downwards or upwards in brick and stone houses.

5. To prevent fire spreading to adjoining houses, cover them with wet blankets.

6. To extinguish fire in a chimney, shut the door and windows of the room. Throw a quart, or more of common salt into the fire. Hold, or nail a wet blanket before the fire place. If these means fail, throw a wet blanket down the chimney from the roof of the house. ✓

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Ladders are commonly used as the means of conveying persons from the windows of houses on fire. Would not a long and stiff pole, with a rope fixed at its upper end, be more portable, and convenient for this purpose?

✓ At the same time
close all the fire places
that communicate with
the chimneys with the
chimney on fire.

12 Protect your house
from fire, ~~by~~ from
lightning by means
of ~~a rod~~ an electrical
conductor.

Places connected in

The famous Mr. John Westley when a child, was taken out of a window in his father's house whilst it was in flames, by one standing upon the shoulders of another. This practice may be used to rescue persons from the first story of a house on fire, where other means cannot be had with sufficient celerity or expedition.

~~A WARNING~~

Legislature of Pennsylvania

s American D

FRIDAY, FEBRUARY 3,

PHILADELPHIA:—Printed by DAVID C. and SEPTIMUS C.

In Council, Annapolis January 5, 1797.

ORDERED, That the Resolutions passed by the General Assembly at their last session, respecting certificates and bills of credit, be published eight weeks successively in one of the Philadelphia and Alexandria news papers, and in one of the Baltimore, Frederick Town and Easton papers, and the Maryland Gazette.

By order,

NINIAN PINKNEY.

By the House of Delegates. December 27, 1796.

1. RESOLVED, That the Treasurer of the Western Shore be, and he is hereby authorized to pay off and discharge the principal and interest due on all certificates heretofore issued by the State of Maryland, other than those distinguished as fraudulent ones—Provided the same are brought into the Treasury for payment on or before the first day of July, one thousand seven hundred and ninety seven.

2. Resolved, That all holders of certificates heretofore issued and funded by the State of Maryland, bring the same to the Treasury of the Western Shore for payment of principal and interest, on or before the first day of July next, and that no interest on any certificates heretofore issued which shall accrue after the said first day of July, one thousand seven hundred and ninety seven, shall be paid thereafter, nor the principal sum until after the end of the next session of Assembly.

3. Resolved, That such part of the five months pay due to the officers and soldiers of the Maryland line, and due for services on board the barges, as shall not be demanded of the Treasurer of the Western Shore, on or before the first day of July, one thousand seven hundred and ninety seven be not paid to any person or persons demanding any part of the same until after the end of the next session of Assembly.

4. Resolved, That the Treasurer of the Western Shore be and he is hereby authorized to pay off and discharge the amount of principal and interest of such bills of credit of the emission under the act of June session, one thousand seven hundred and eighty, as may be produced and brought into the Treasury, on or before the first day of July next.

5. Resolved, That if any of the holders of bills of credit emitted in virtue of the act of June session, one thousand seven hundred and eighty, do not bring the same into the Treasury of the Western Shore for payment, on or before the first day of July, one thousand seven hundred and ninety seven, that all interest from that time cease thereon, and the principal not be paid until after the end of the next session of Assembly.

6. Resolved, That the above resolutions be published for eight weeks successively, in one of the Philadelphia and Alexandria news papers, and in one of the Baltimore, Frederick Town and Easton papers, & the Maryland Gazette, that the creditors of the State may be notified that funds are prepared for the discharge of their claims.

By order,

Wm. HARWOOD, Clerk.

By the Senate, Dec. 27th, 1796.

Read the first time, and ordered to lie on the table.

By order,

A. VANHORN, Clerk.

By the Senate, Dec. 29th, 1796.

Read the second time and assented to.

By order,

d8w

A. VANHORN, Clerk.

Now discharging at Penrose's

wharf, the next below Almond street, from the ship Arethusa, a quantity of Porter and Wine BOTTLES, for sale at the reduced prices of 4s. to 5s. per dozen, and on a liberal credit, according to the quantity purchased. For further particulars, apply to WILLIAM & SAMUEL KEITH.

No. 279, South Front street.

Also, for sale, Fifty Ton of COALS.

Fresh Garden, Grass and Flower

s Ame

F R

DELPHIA:—Printed b

d8w By order, A VANHORN, Clerk

Now discharging at Penrose's wharf, the next below Almond street, from the ship *Arethusa*, a quantity of Porter and Wine BOTTLERS, for sale at the reduced prices of 4s. to 5s. per dozen, and on a liberal credit, according to the quantity purchased. For further particulars, apply to **WILLIAM & SAMUEL KEITH**, No. 279, South Front street. Also, for sale, Fifty Ton of COALS.

Fresh Garden, Grass and Flower Seeds, Roots, &c. &c.

This Day Landing from the ship *Eagle*, Captain Foldick, from London, and for sale by **GOLDTHWAIT & MOORE**, Corner of Walnut and Second streets, a most capital and extensive assortment of

Garden, Grass and Flower Seeds, Roots, &c.

Among which are			
Five kinds	Asparagus	Three kinds	Cresses
Four	Bercole	Twelve	Onions
Twenty five	Beans	Thirteen	Radish
Six	Beets	Fifteen	Turnip
Eleven	Brocoli	Fifteen	Peas
Twenty six	Cabbage	Six	Savoy
Six	Carrot	Four	Parsnip
Three	Cauliflowers	Twenty three	Melon
Five	Celery	Twenty one	Lettuce
Ten	Cucumber		

Common and lemon Thyme			
Curled leaf and sprigged Parsley			
Pot Marygold	Pot Marjorum		
Balm	Thyme	Mangel Wurtzel	
Leek	Kail	Shallots	
Rape Seed	Rye Grass	Saint Foin	Lucerne
Red and white Clover	Timothy, &c. &c.		

FLOWER SEEDS & ROOTS.

Being the most extensive assortment ever imported in this city. The above are from a capital Seedsmen in London, and are warranted fresh and good. Printed catalogues may be had by applying as above. Dec 26

THE PARTNERSHIP BETWEEN

Israel Whelen and Joseph J. Miller,

TRADING under the firm of Whelen and Miller, was dissolved, by articles of agreement, on the 15th day of February last; but the said Joseph had a right, by the said articles, to use the name of the firm for a certain time, which has now expired, and of which this public notice is given.

All persons indebted to the said co-partnership will please to make payment to Joseph J. Miller, to enable him to adjust and discharge the debts due from the company.

**ISRAEL WHELEN,
JOSEPH J. MILLER.**

Philadelphia, December 20, 1796.

THIRTY HOGSHEADS

4th proof Jamaica Spirits,

20 hds. St. Croix Rum

40h hds. Sugars

A quantity roll Brimstone—For sale by

JOHN STEINMETZ, junr.

Jan. 10 20sp

No. 69, north Water street.

House and Smith's C O A L,

From England, now landing and for sale by

Dec 30

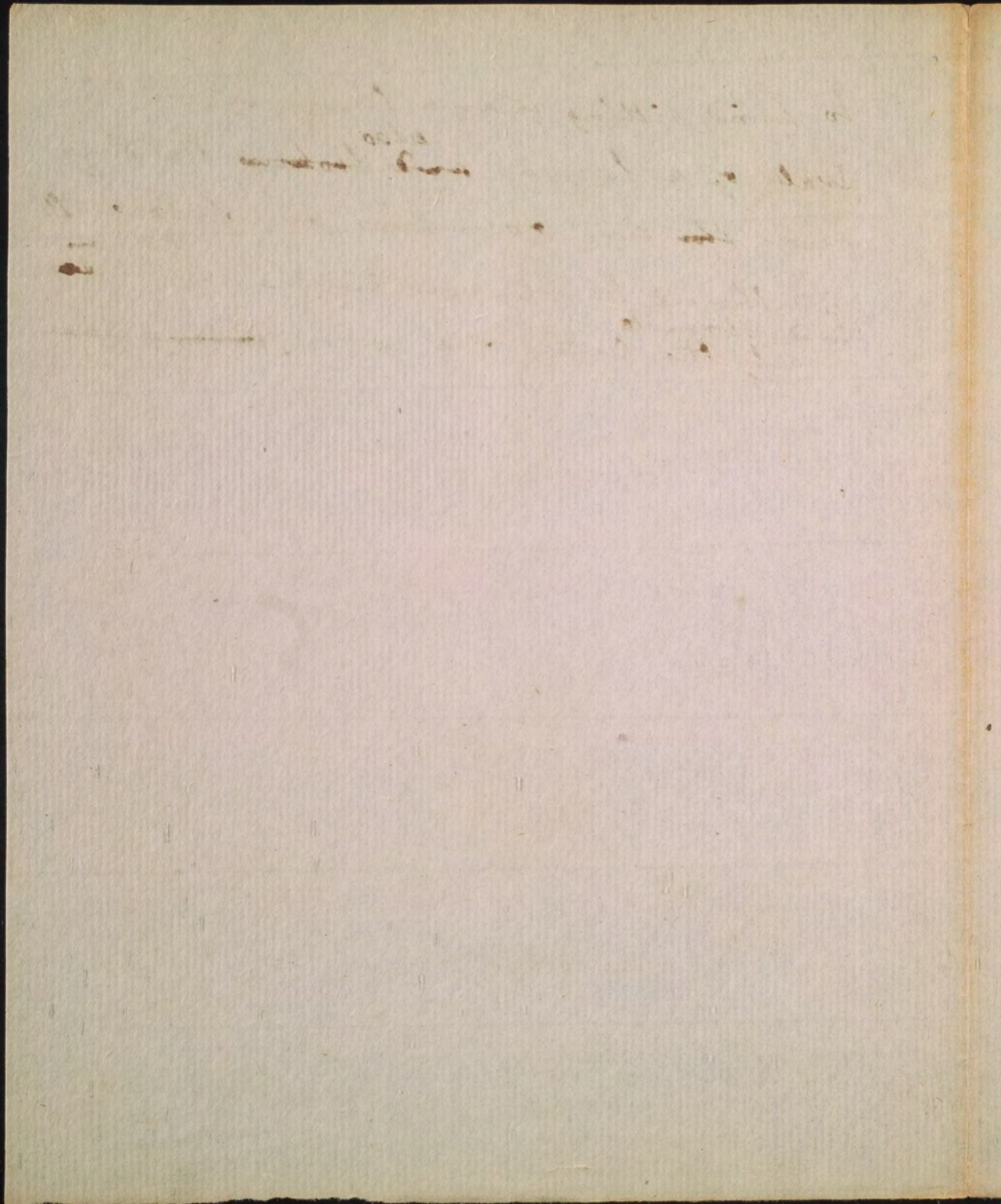
ISAAC PHIPPS,

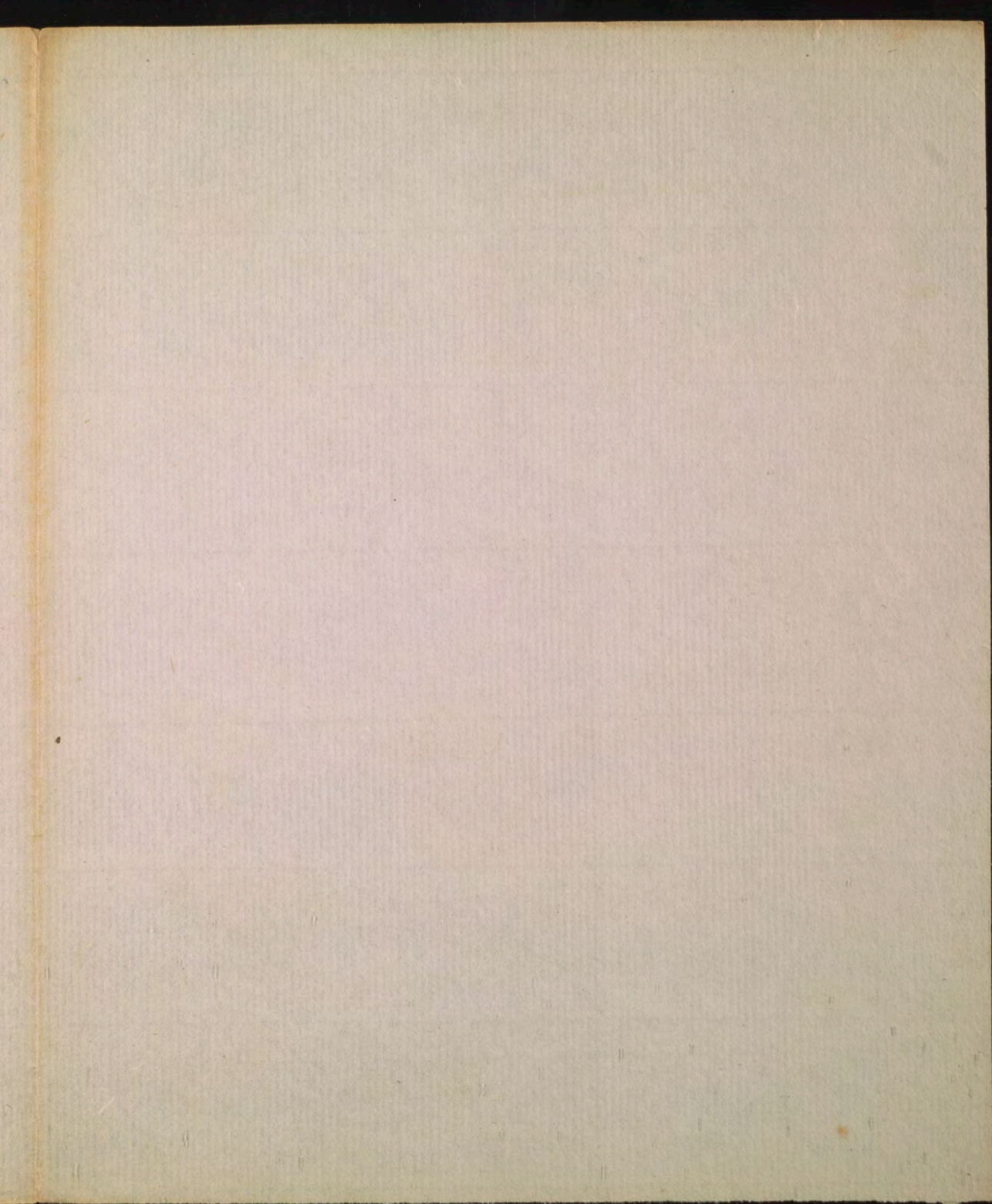
Corder on Almond street wharf.

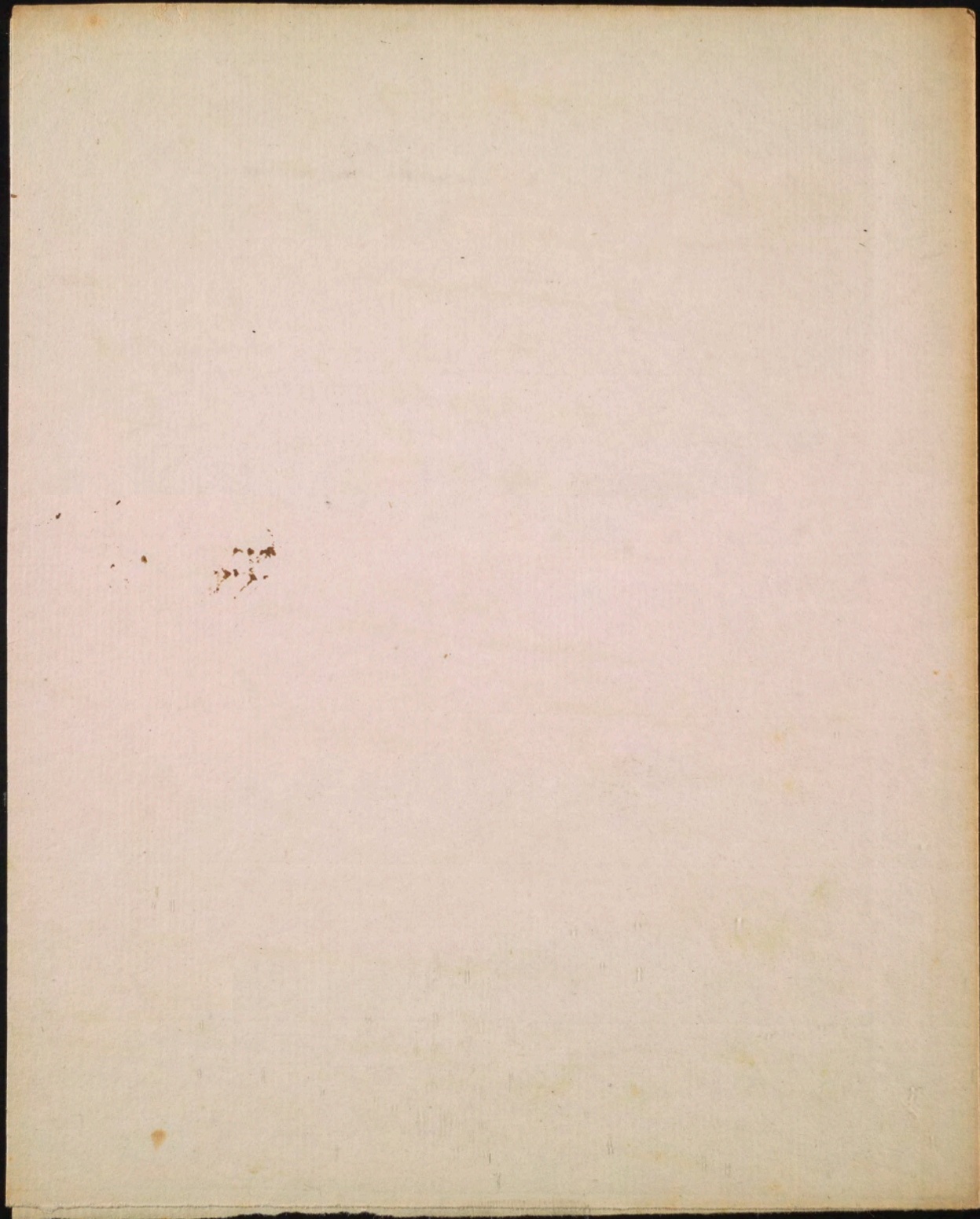
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ing. They a
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aken During a



to avoid sitting near a chimney, or the
 walls of a house, ^{also} ~~and~~ ~~broken~~ standing
 near ~~the~~ an open door or window. ^{During a} A
 bed should be removed in the night, ~~to~~
^{thunder storm to} nearly the centre of a room. ~~During the~~
 " "







Our Dress Cloathing

The first use of Dress was to prevent a sense of shame to which the loss of minimal innocence ~~and nakedness~~ exposed the parents of the human race. It serves the further purpose of defending the human body from those degrees of ^{heat} cold and ^{moisture} which excite pain and burning the cause of many diseases.

see lectures on pathy 12th 6.

~~The essentials with which~~ ^{Cloathing} ~~is employed~~ ^{is composed of} for ~~Cloathing~~ in the United States are woolen - linen - cotton silk & cotton paper.

This part of our Subject divides itself into the materials, and the form of Cloathing, for ^{the} different sexes, ~~and~~ and afterwards into those kinds which are proper for ^{the} different seasons, ~~for the different~~ ^{for the different} sexes, ~~ages~~ ^{ages} of the year.

1. The first part of the paper is a list of names of the persons who have been
 2. named in the report of the committee on the subject of the proposed
 3. amendment to the constitution of the State of New York. The names are
 4. as follows: John A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
 5. The second part of the paper is a list of the names of the persons who have been
 6. named in the report of the committee on the subject of the proposed
 7. amendment to the constitution of the State of New York. The names are
 8. as follows: A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
 9. The third part of the paper is a list of the names of the persons who have been
 10. named in the report of the committee on the subject of the proposed
 11. amendment to the constitution of the State of New York. The names are
 12. as follows: A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
 13. The fourth part of the paper is a list of the names of the persons who have been
 14. named in the report of the committee on the subject of the proposed
 15. amendment to the constitution of the State of New York. The names are
 16. as follows: A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.
 17. The fifth part of the paper is a list of the names of the persons who have been
 18. named in the report of the committee on the subject of the proposed
 19. amendment to the constitution of the State of New York. The names are
 20. as follows: A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

The materials of which Clothing is
composed are wool, ^{silk-fur-leather, & all} ~~lin cotton and linen~~
of which ~~the first three~~ ^{four} are obtained from animal
substances, ~~the two last are~~ ^{and cotton and flax which are} obtained
from vegetables. The former have dis-
=redly been considered as affording the
most healthy materials for Clothing.
of They ~~are~~ ^{seldom} apt to ~~and~~ generate dis-
=ease by retaining the perspiration. This
is one reason why the Chinese who wear
silk garments ~~till they~~ ^{are} apt to be subject
to the fevers which arise from human
miasmata under many of the other
circumstances which produce them. ^{Some} They
retain the heat of the body longer than
the heat of Clothing from vegetables, ~~be~~ ^{they} not
when wet with ~~exposure~~ ^{rain} are apt
disposed to check perspiration. It was
annihilated during the American revolutionary
War

V the Soldiers of ancient Rome. This
healthiness from this and ~~some~~^a
~~other~~ causes formerly mentioned
was such, that ~~not a single treatise~~
~~has descended to us upon the diseases~~
~~of the Roman Soldiers, and probably~~
because no ^{specific} Diseases ^{existed} ~~prevailed~~
~~among~~ ^{to} them. This is inferred, from not
a single ~~dis~~ treatise upon camp
diseases ~~is to be met with among~~^{being}
all the numerous medical books
and tracts which have descended to us
from that nation.

that those officers and soldiers who wore flannel ~~trunks~~ next to their skins were rarely affected by Colds or fevers. Woolen garments alone were worn by Cotton partakers of some of the qualities of the Clothing which is obtained from Animals.

Linum obtained from flax is the most less disposed to produce disease of any the articles of Clothing that have been ^{imagined} mentioned. The perspiration when ^{raised} by it ~~too~~ for some times, acquires a moist quality. Even rain when ^{suppressed} and to stagnate upon it has been known to change its qualities so as to render it unhealthy. Those soldiers who ~~were~~ ^{wore a} ~~stuntly~~ coarse over garment called a Rifle-knit made of linen, were the first victims of the Camp fever which

✓ Damps ~~and~~ linen next to the body,
and Damp sheets should be carefully
avoided. I know that this advice has
been opposed by Dr Franklin upon the
authority of Father Traylor who ^{includes} ~~error~~
~~des~~ the opinions of persons taking
cold from ^{the above causes} ~~wet sheets - badly linen~~
and ^{from} newly washed floors, among in
the list of vulgar errors. ~~The experience~~
of ~~Thomas~~ ^{hundreds} ~~thousands~~ however ~~is~~ ^{is} the
practice may be, to Soldiers, Sailors
and Labourers, ^{there are few} ~~it the experience of~~
^{in the United States} Physicians who have not seen
Rheumatism, Colds, and Pleurisy
contracted by it.

Destroyed several thousand of the Ameri-
-can Army in the year 1776. I mentioned
formerly that it sometimes produced
Disease when the confined for a week or
two in a cloaths bag or basket from
the ~~small~~ perspiration it retained
when taken off the body. ~~to~~ This unhealth-
-ness ^{was perhaps improved upon it to compel}
-the quality in linen may be completely
us to be cleanly, for it ^{is}
obviated by changing it often, and exposing
it when ~~there~~ foul, to the action of the
Air. ~~It is~~ ~~it~~

✓ The form of Cloathing should be
such as never to bind any part of the
body. The Cloaths of the ancient Romans
were loose and flowing. many diseases
have arisen from tight ~~such~~ ~~the~~ liga-
-tures about the neck and breast & waist,
~~and~~ and from tight shoes and boots.

The four seasons all require different kind of Cloathing. I shall begin by mentioning ^{that} which is proper in the winter, or in cold weather.

Wool, fur and silk are thought to be preferred to protect the body from the cold of winter, and the quantity of them should be proportioned to the degree of cold, and the sensibility of particular parts. I am aware that I oppose here a popular opinion that the whole body might be made to acquire by time & habit the same insensibility to ~~the~~ cold, that we observe to take place in the face. But I cannot admit this opinion. The nerves of the face possess a specific insensibility to cold which is seldom acquired by other parts of the body, and should we render the ~~nerve~~ of them all equally

[Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side. The text is mostly horizontal and spans the width of the page.]

insensible with the fall to the action
of cold in the course of a winter, they
would lose this insensibility in the
ensuing summer, and thus the work
of hardening the body would be doing &
undoing ^{every year,} ~~this~~ ^{of} life and never done.
But for what purpose do we wish to
create this general insensibility in the
body to cold? ^{Do we} ~~we~~ ^{do not} wish to create
our sons ^{exclusively} for the trials of ~~hunting or~~ war,
and ~~to~~ ^{to} watch for the ^{animals} ~~game~~ upon which
they are to subsist, for two or three
days behind a bank of snow? ^{or do} ~~we~~
to we wish to form our women
for the ~~rough~~ hardships & slavery of
Indian wives? - ~~The design of this work~~
~~is to~~ Admitting that we could succeed in
~~this~~ the experiment of inducing the

This is a copy of a letter from the Secretary of the
 Board of Education to the Board of Trustees of the
 University of the State of New York, dated
 January 1st, 1892. The letter is in the
 handwriting of the Secretary and is signed
 "J. B. [illegible]". The letter is addressed to
 the Board of Trustees of the University of the
 State of New York, and is dated January 1st,
 1892. The letter is in the handwriting of the
 Secretary and is signed "J. B. [illegible]".

Indian Constitution upon ^{our} ~~vicious~~
 citizens, what should we gain by it?
 The design of this work
~~look at an Indian~~ is to produce
 in its readers the greatest degree of health
 and longevity, but look at an Indian
 of fifty years of age, and you will see
 in his face the same marks of age which
 you will observe in a ^{man who} ~~man~~ ^{civilized} has
 passed seventy years in a ~~state~~ ^{state} of civili-
~~zed society~~. Read the accounts that are given
~~of the~~ by travellers of the violence of the
 Diseases ^{of the Indians} ~~and~~ ^{occasional} mortality of whole
 tribes from them, & of the frequent rare
 instances of ~~an~~ old age that occur among
 them, compared with ~~the~~ ^{under equal}
 circumstances with ^{the great} ~~those~~ which occur
 among civilized nations.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in several horizontal lines across the page.]

I would therefore to point out the means
of perpetrating to man the blessings
of that state in ~~which he was created~~
~~and in which the first families upon~~
the earth existed, and in which there
is ~~more~~ not only more health & longer
life, ~~that more enjoyment than in~~
~~savage states and degraded & miserable~~
~~that departure from its various~~ ^{condition} ~~civilization~~
which has enormously been improved
to have been the original ^{state condition} ~~state~~ of man.

The following rules should be ob-
served in protecting the body from cold.

1 Flannels should be worn next to
the skin. ~~The shirts of the Roman soldiers~~
~~were made exclusively of the wool. &c.~~
I shall hereafter mention the only
state of the body which requires an
exception to this rule. Where flannel
is forbidden, or disagreeable to the skin

the advice which Dr Boucher gave to a gentleman to whom he recommended warm clothing, should be followed. It ~~consisted in a few words~~ was "Remember two shirts, are warmer than two great coats." The climate in which Dr Boucher lived gave him the best opportunities of knowing the efficacy of this prescription.

2 The head should be protected in cold weather by a woollen night cap. ~~To this rule there is sometimes an exception. Persons who are subject to inflammatory affections of the brain are defended~~ It is no objection to this rule than some persons have been cured of head ache, and other diseases of the brain by exposing their heads during the night to the action of cold air. ~~Persons~~

Object of this work is to suggest the means of preserving health & life, and not to cure diseases.

3 The feet should be protected with woolen stockings - corded soaked shoes, or large and loose galoshes worn over the shoes or boots. These will be more necessary when the weather is wet as well as cold. The following application to the shoes and boots ~~known~~ first used by ~~the same~~ of the fishermen in the reign of Queen Elizabeth of England has been found effectually to prevent their imbibing moisture. Dissolve four parts Resin wax six ^{parts} & mutton tallow eight parts, and linseed oil sixteen parts melted together. Too much pains cannot be taken to keep the feet warm in cold & even cool weather, for by them

and ~~most~~ ^{chronic} the mouth nearly all diseases enter the human body.

4 Feather beds should be ^{used} ~~preferred to any~~ ^{and they are wider - warmer de -} ~~seals~~ in cold weather. And a covering of wool of down should be preferred to a great number of bed clothes. ^A ~~The~~ ^{weight} of a down covering ~~that~~ ^{that} weighs but three pounds will confine more heat than three blankets. It has moreover the additional advantage of not oppressing the breast by which means the lungs in every act of inspiration fill the whole chest. ~~for~~ a blanket placed between the lower sheet and the bed ~~adds~~ adds considerably to its warmth. In extreme cold weather, it will be found more comfortable to sleep between blankets than sheets. The warming pan ~~should be~~ is seldom necessary to persons in good health. as sleep

V once engaged in extensive Country
practice informed me that he had
found the latter, taken just before
he mounted his horse to ride in
the cold to protect him from its
painful effects much more than
ardent spirits.

is sometimes prevented in very cold weather by cold feet, they should be kept warm during the night by being placed in contact with a jug or bottles filled with warm water. Under the bed clothes they will retain their heat until morning. —

In going abroad in cold weather some further means of ^{defending} ~~protecting~~ the body from being injured by it have been found necessary. These are

1. Eating a hearty meal or drinking a pint of strong Coffee. A physician who was
2. washing the feet in tepid or cool water, and afterwards adding, to the coverings formerly mentioned, a large woollen Socks or Stockings. ~~They~~ In riding in a carriage, hay or straw may be substituted for them. In riding upon horseback, the feet will retain their heat a great while by resting them upon stirrups covered

with tal. or a piece of coarse woollen
Cloath.

3 The hands should be covered with
gloves or mittens made of woollen
or fur. The latter by admitting the
contact and motions of the fingers, &
retain the most heat.

4 the ears are more apt to be affected
by cold than any other part of the head.
They should be protected by means of a

hand kerchief or a fur cap.

5 the face should be defended by a mask.

6 The trunk of the body and the limbs
should be defended by means of thick
woollen cloaths. Mr. Auerb mentions in

speaking of the means employed in Sweden
to guard the body from cold mentions an
instance of a German who left ten articles
of dress ~~at~~ ⁱⁿ the entry of a house ^{to} which
Stockholm to which he went to pass

V 8 ^{Dr} Boerhaave mentions a liquor called
Brunswick which is ^{used} ~~drank~~ by the Drunken
who bring cattle from the north of Europe to
Holland in the middle of winter ^{in order} to fortify themselves
against the cold. They declared to the Doctor &

~~that~~ Chewing tobacco by persons
I who have not been in the habit of
using it. I have heard of a life being
saved by this remedy. It not only
counteracted the cold, but induced
a general heat and perspiration
over the whole body.

11. ~~that~~ Wetting the body with salt water has
been found to open the ~~channels~~ of the
Air the ^{painful} effects of cold air, and cold
fresh water upon the body.

12 Pouring ^{strong} spirits into the shoes or boots
that they found no liquor equal to it
in preserving the natural heat of their
bodies. It is nothing but Beer ^{strong} in its
~~unfermented state~~ aided by heat to the
consistence of a thin Syrup. —

9. ~~A physician who~~ A Physician ^{who}
was once engaged in extensive Country
13 The Indians Tobacco the first

in
are running ~~on~~ a winter. Six of them were
two pairs of gloves - two pairs of boots, and
two great Coats. ^{upon the body.} Singing depen the effects of cold
& Conversation, and singing depen the effects of cold
10 ~~It is a good practice in travelling to~~
avoid going near to fires in unless the
cold be very intense. ~~where the hands or~~
~~body be limbs or body have suffered~~
~~from the cold. If the person, they~~
should be washed in cold water before they
are exposed to the fire. -

11
12 Persons are sometimes exposed in tra-
-velling by land and water to intense degrees
of cold in which they are incapable of
using exercise to ^{or any of the means that have been mentioned} ~~open~~ it. ^{a brother}
of the late Governor Van Dyke ^{informed me}
~~that he was obliged to cross from below~~
that he was obliged to cross ^{one of the}
rivers of the Chesapeake on a cold evening about
forty years ago. ^{and a little beyond the}
middle of the river, the ^{ice} ~~water~~ ^{froze} so
rapidly, that the boat could not be
moved. The ferry men gave up all

practice informed me that he had found a pint of strong Coffee taken first before he mounted his horse to ride in the Cold, to protect him from its painful effects much more than Ardent Spirits.

Painful sensations of Cold upon their feet by plunging them in Cold water.

They sometimes break the ice for this purpose. The Cold water ^{aided by salt} excites ~~reaction~~ ^{reaction} ~~from~~ subsequent exercise of walking ~~again~~ produces reaction in the feet & thus restores their warmth.

14 The least tendency or disposition to Sleep should be resisted by running, or jumping when it is practicable. This Sleep is the beginning of death.

expectations of ~~our~~ life. m^r Van Dyke
~~convinced~~ bid him not despair, and
 directed him to take off his shoes, ^{while he at} ~~at the~~
 same time ~~also~~ took off his boots. They
 then sat down in the bottom of the boat
 and placed ^{with} their feet ~~placed~~ against each others
 breasts, ~~and their heads and bodies so~~
~~completely covered~~ afterwards they covered
 their heads and bodies ~~so~~ completely with
 m^r Van Dyke's great coat that by which
 means they confined ^{so much of} ~~all~~ their perspiration
 and breath as to become ~~so~~ comfortably
 warm. ^{They then fell asleep and remained in}
~~that state for several hours.~~ ~~that they slept bravely for~~
^{several hours.} In the morning the
 river was ~~so~~ frozen so hard, that
 the ferryman led m^r Van Dyke's horse
 upon it to the opposite shore. Several
 persons were saved from perishing with

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Cold by the same practice in ~~the winter~~^{new york}
of 1806 who were driven from ~~the houses~~
into the open sea in the winter of 1806.

In the Spring, the clothing should ^{be} gradually
loosed with great care. no part of the
interior covering of the body should be
laid aside. Until the weather becomes
uniformly warm. ~~many fatal~~ Pleurias
have often been brought on by taking off
a flannel shirt on a casual hot day in
the month of April. The ^{Cloak,} Great Coat or
Sustout, or Spencer may be dispensed with
at midday but should be put on in
the mornings and evenings. The form
of the Chinese ^{Dresses} ~~clothing~~ favours the ^{easy}
diminution or increase of the clothing.
They wear ^{in cold weather.} ~~their~~ ^{three} Coats ^{or} ~~outer~~
much more than ours. ~~The~~ ^{one} ~~Outer~~ ^{Outer} Coat is shorter & lighter

than ~~this~~ the second, and the second
finer and lighter than third by which
means they change their dress so as
imit the changes in the weather without
so great diminution of their cloathing as
arises from laying aside a great coat,
or without the trouble that attends
taking off, and putting on the ^{interior} ~~interior~~
and small coverings of the body.

~~In wet weather whether it occur in~~
~~the town~~ In summer it is common to
wear clothes made wholly of ^{silk} Cotton, ^{and} silk
linen. But experience has taught that
skin ~~clothes~~ awoolens are to be preferred to
them, especially for outer garments. When
the heats they induce tend to prevent the
By persons to whom flannel is disagreeable.
Diseases of summer. Great care should be
- worn next to the skin, cotton may be used in its stead.

V It ~~is~~ is practice Ulloa tells us among
the Spaniards in the Island of Cuba when
they are partially wetted by a shower of rain,
to plunge themselves into a stream of water so
as to wet their bodies all over to the skin. The
system is thus obliged to react, and the bad
~~the brown, malarious~~
effects of the partially wetting prevented. Where
this is not done wet cloaths should be
never be ~~per~~ suffered to dry upon the
body. The sooner they are changed for
dry cloathing, the better. Where this can
not be done, the reaction of the system
should be excited by ^{exercise} ~~strong~~ warm tea, or
Coffee - fermented liquors, ~~the~~ by a small
quantity of Ardent Spirits. This is one of the
for General Wolfe a who was a philosopher as
was a soldier. A warrior never allowed his soldiers
to taste Ardent Spirits except ^{when they were} ~~upon the battle~~
exposed to rain, in which case he found
them safe and useful. It is one of the
few occasions that occur in the which
they are safe and useful.

taken to ~~guard~~ increase ~~or~~ ~~change~~ the
Clothing in the mornings and evenings
in the middle states,
After the 20th of August, and at all other
~~the~~ times when the coolness of the morning
& night ^{air} greatly exceeds its temperature in
the middle of the day. It will be im-
-prudent in most parts of the United States
to go abroad for more ^{in the summer months} a few days without
a change of woollen Cloaths, or a great
Coat. The Spanish proverb relative to
this rule is a wise One. "If it ^{the sun} ~~is~~ ^{is} shining, take your great Coat with
you, but if it rain, do as you please."

✓ ~~This body suffers least in~~ to the rays of the sun
^{exposing the body}
~~In going abroad in hot weather~~
the head should be protected by means of
Umbrella & a high crowned hat and light
hats. ~~They~~ The latter should be made

V whole bodies ~~by means of~~ ^{with} large and
broad great Coats or Cloaks when they
expose themselves to the rays of the
Sun. ~~by which means they suffer~~ ^{they act in the same way}
~~only from an accumulation of~~
in keeping the heat of the Sun as the
Egyptian turban. -

of straw or pasteboard. They are coolest when white, but a dark color is best calculated to conceal the dust which is apt to ~~on~~ ~~attach~~ attach itself to them in summer, and it does not add much to their heat.

The Egyptians ~~from~~ protect their heads from the intense heat of their sun by a thick covering called a turban. It excludes by its numerous folds the external heat which is ^{often at 120 & seldom less than} ~~often at 108 of~~ Fahrenheit's thermometer, and exposes the head to its own heat only which is ^{many} ~~the~~ degrees lower than that of the external air. The Spaniards & Portuguese ^{cover} ~~protect~~ their

It has been ^{said} ~~supposed~~ that the head ~~is~~ by being uncovered in the hot sun

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

requires ~~not~~ an insensibility to heat
which ~~renders it less~~ defends it from many
of the diseases of the brain. It is certain
the skulls become thicker & more dense
by this practice. This was long ago ac-
-tained in walking over a ^{of battle} field that
was covered with the bones of a number
of Persians and Egyptian soldiers. The
skulls of the latter ~~were~~ who never
covered their heads, were known by their
greater thickness than the former. ~~was~~ ^{men}
But the design of these ~~pages~~ who stoop
at their labor in the fur as parors
Gardiners in weeding, & some other classes
of ~~let~~ people find no inconvenience from
the want of a covering upon their heads.
But the design of this work is not to

to be soldiers nor to ~~laboring~~ troops
 qualify men exclusively for ~~hard labor~~
 at labor in the hot sun. It is intended to meet
 the Citizens of the United States as they
 are, and as they live in a climate exposed to
 rain as well as ^{to} heat in summer, and
~~as but few of them are soldiers, and still~~
~~fewer troops in the open air at occupations~~
~~which require stooping they should protect~~
 their heads whenever they expose themselves
 to the rays of the sun in hot weather.
 Standing still in the sun should be
 carefully avoided.

In the use of drinks to mitigate the
 heat of the body, the reader will please to
 advert to the rules that were delivered in
 10:

The body when much heated, or

V This Caution I know will be objected to by persons who are in the practice of sleeping with their windows open in cool and even cold weather. But let them remember that there is less danger in doing so, at those times than in the summer months. The greater the heat, the more the system suffers by a small diminution of it. This is well known & from sad experience in Egypt, and in the East and West Indies, where more diseases are induced by the coolness of the night air, than in all the northern Countries of Europe, and in the United States. -

covered with sweat should never be exposed in a sitting posture, or at rest in any way to a current of air.

A mattress should be preferred to a feather bed in summer. The larger it is made, the more easily it admits of the body changing its ^{posture} ~~position~~ from a warm to a cool part of it.

It will be unsafe ~~in the~~ in the variable weather of the middle states to sleep with the windows open in the ^{summer} ~~winter~~ months. A sudden change in the tem-

perature of the ~~night~~ air in the night

often induces Colic, Coleras, fevers, and death. ^{in Philadelphia.} It is most ~~dangerous~~ dangerous

after the air becomes charged with those exhalations which produce autumnal dioceses. —

The Clothing should ^{be} gradually in-
 -creased in the first autumnal month,
 and it should be nearly the same as
 in winter, in October and November
 in the middle and Eastern States. Cold
 is the greatest ^{physical} enemy to man. It
 destroys millions by its sensible
 qualities alone, but it aids fevers
 from putrid exhalations in the business
 of destruction by hurrying in the
 autumn, this existing Cause. Of the
 many thousand ~~Citizens~~ inhabitants of
 Philadelphia who have perished with the
 yellow fever since the year 1793, ~~but~~ ^{the}
~~were~~ a light in their waistcoat, - a
 ride in the early morning or evening

1847
The following is a list of the
names of the persons who
were present at the
meeting of the
Board of Directors
of the
City of New York
on the 1st day of
January 1847.
The names are
as follows:
1. John
2. John
3. John
4. John
5. John
6. John
7. John
8. John
9. John
10. John
11. John
12. John
13. John
14. John
15. John
16. John
17. John
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81. John
82. John
83. John
84. John
85. John
86. John
87. John
88. John
89. John
90. John
91. John
92. John
93. John
94. John
95. John
96. John
97. John
98. John
99. John
100. John

Air, and the want of a ~~blanket~~ ^{sufficient}
bed clothes at ^{have} ~~the~~ night, awakened the
sleeping disease in most of them.

Fires should be made in the Corn-
-room sitting room every morning &
morning in September, and ~~early~~ ^{during the}
whole day as soon as the Glass descends
to 62° of Fahrenheit. ~~In rainy weather~~ ^{could}
They not only warm the body, but
they carry up the Chimney all the
exhalations which insinuate themselves
into the house in the Autumnal months.

Fires should likewise be made in
Summer whenever the weather becomes
unseasonably cool, and especially if it
be accompanied with rain.

Let it not be said that ^{health} life is
not worth having upon the terms of

vigilance and care that have been recom-
-mended. It is ~~practiced~~ by considering
its immense value it is purchased by

them at a small price ^{occupation}
A difference in age and sex require some
some variation in the clothing ~~and~~
~~be made~~ as well as a difference in the
seasons.

Children ~~suffer more from heat &~~
~~suffer more from heat &~~ ~~suffer more from heat &~~
to ~~soothe them~~ less from cold than adults.

~~They should therefore be clad in thin~~
~~thin clothing should be light in sum-~~
~~mer, and moderately warm in winter.~~

Thin flannel next to their skins is
calculated to defend them from the
Stomach and bowel Disease to which
they are so generally subject in the
United States.

extenuated state of the thread of
V The ~~delicacy~~ ^{in old people} which ~~appears~~ ^{renders it} very liable to be broken
by degrees of heat and cold which are
 seldom met with in middle life. The
 former should be obviated by rest,
 and artificial currents of air, and the
 latter by additional cloathing more
 especially upon their heads and feet.
 As the death from cold makes its first
 attack upon striae in the night, they
 should be wrapped up in flannel, or
 bottles filled with hot warm water.
 should be applied to them when they go to bed.
 To

The young and ~~middle~~ aged will
profit by a strict attention to the
~~customs~~ ~~for~~ ~~regulation~~ directions for regu-
-lating their Cloathing that have been
delivered, by the State and changes of the
weather. Let the former remember
this "if they wish to be young when
they are old, (to use the words of a Spanish
proverb) let them be old [that is wise] ⁱⁿ
when they are young". Health is ^{one}
respect like money, the more frugally
it is saved in youth, the greater capital
it will produce in Old Age. —

V The ~~decreasing~~ decay of heat in ~~old~~
people, and their inability to derive it
by labor or exercise ~~under~~ ^{more} ~~any~~ ~~business~~
~~of~~ Cloathing necessary for them ^{than} ~~in~~ ~~the~~
for persons in early and middle life.

Direct eye of Spectators from the
~~conceal~~ the ~~face~~ marks of time upon
the body and particularly upon the
face, those of old people their clothing
should not only be warmer, but
more elegant and splendid than in
early and middle life.

Indians men become less sensible to
 heat, and more sensible to Cold than
 other people. They often suffer from ^{the} ~~the~~
~~glaciers~~ decay of their fires in the evening,
 and by going to bed ~~in~~ chilly, or with
 cold feet. They should avoid both by
 warm cloathing, and comfortable fires
 in their places of study, ~~and by warming~~
~~but warm water should be applied to~~
~~their feet, if they if~~ when necessary just
 before they go to bed. -

Persons who ~~follow~~ follow sedantary
 mechanical employments require artificial
^{light cloathing}
~~degrees of cooling the air in summer, and~~
~~strong rooms in winter they and warm~~
 cloathing in winter.

Mechanicks who work in the

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open, also labourers require light Clothing
in Summer. Where men work under
cover, they feel the least heat least when
they take off their shirts, and ~~expose~~^{rapid}
their naked bodies to the air. The evapo-
-ration of this sweat is ~~more rapid~~^{by this means}
counteracts the heat of the air. Where
~~the whole body~~ and all the limbs, and the
whole body are ~~more~~ exercised in winter,
less Clothing is necessary than where
that state of the system does not take
place. ~~After labor~~ During the suspension
of labor, the Clothing should be en-
-creased, or refuge should be taken in a
warm room. —

~~their heads and their feet should be~~
~~defended with great care from the cold.~~
 Women in early and middle life ~~are~~
~~of~~ bear the extremes of heat & cold
 with more patience than men, but
 they do not suffer less from them. It is
 to be lamented that in the climate of
 the United States, they are governed by the
 fashions in dress of which prevail in
 the more moderate climates of Paris &
 London. hence ~~these heavy cushions upon~~
~~heads in summer~~ and ~~thin~~ bare
 arms and thin body clothing in winter.
 This ~~rebellious~~ want of conformity to
 nature, reason, delicacy and the ^{temperature} ~~climate~~
 extremes of heat and cold in the United
 States, has greatly increased the number
 of ~~stranded~~ diseases and particularly of

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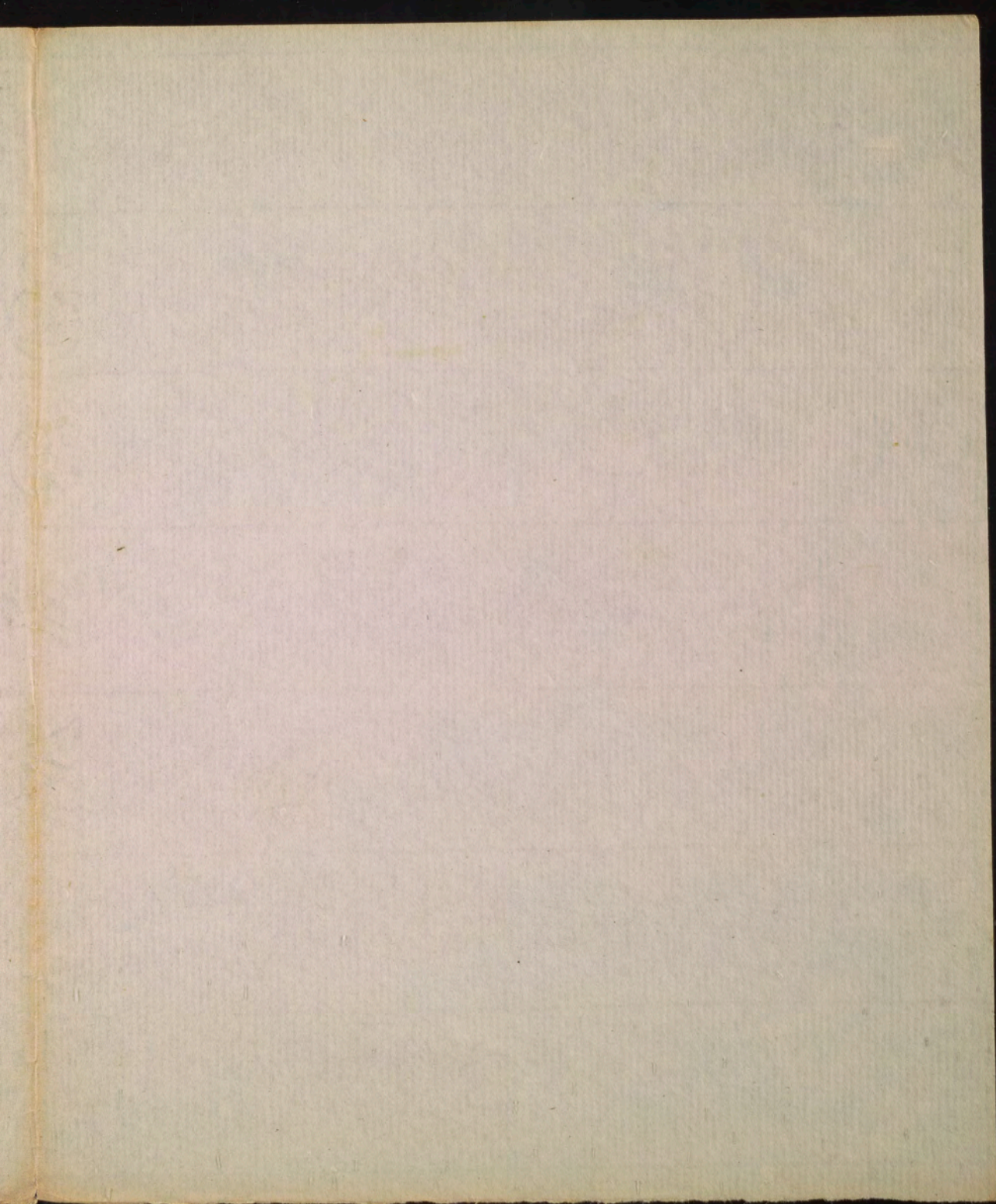
the pulmonary Consumption among
all ranks of our Women. The pro-
-portion of female patients affected with
that disease ^{to that of males} in the practice of the Author
during the year 1808 was to that of the
male as ^{late} ~~From this~~ ^{great in-}
Additions that have been made to ~~the business~~
~~and~~ ~~acquisition of females to the list~~
of business of physicians to the number
of female patients from ^{one of} the causes
that have been mentioned, it has been
said very properly that "the nakedness
of the women is the Clothing of the
physicians of the United States."

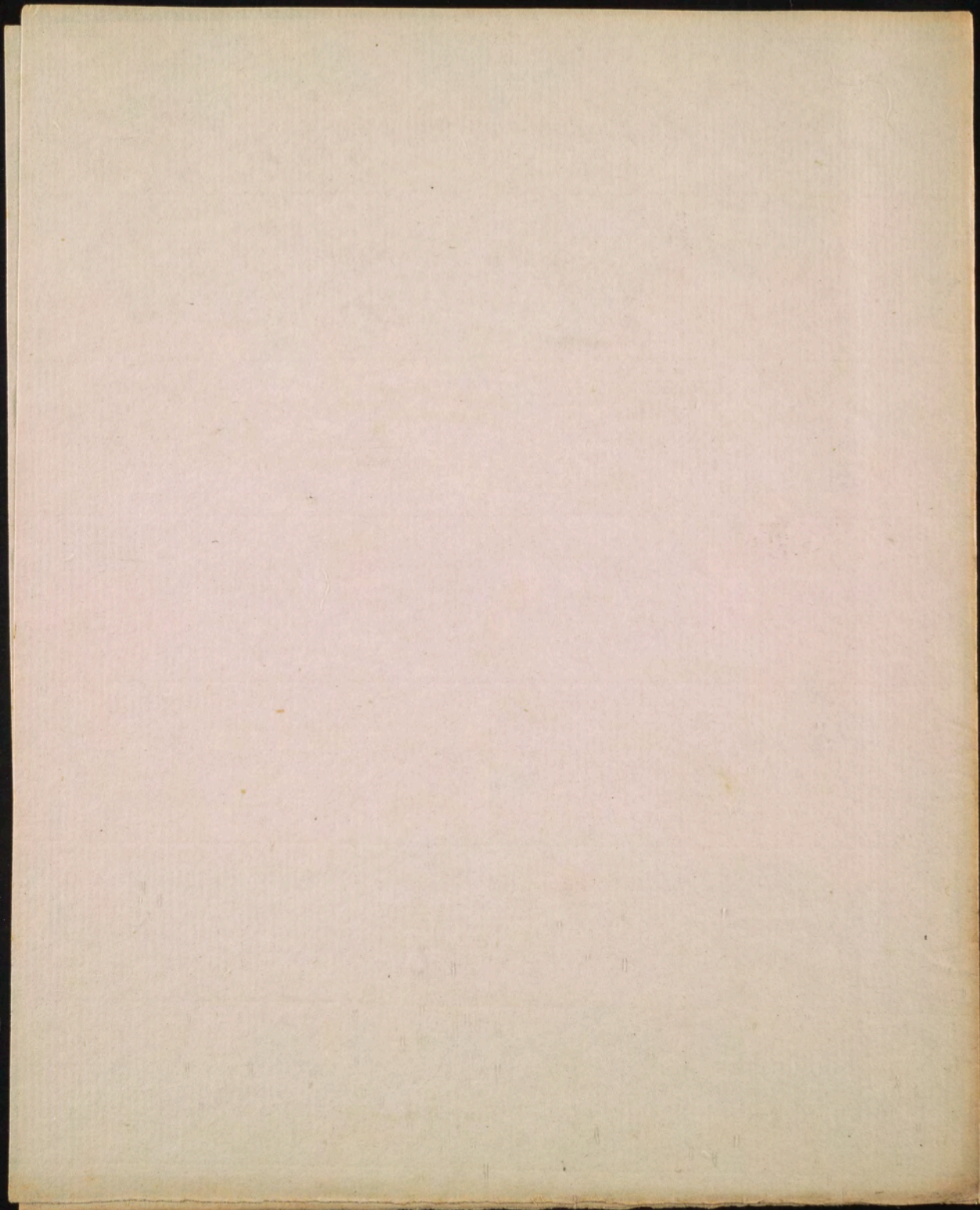
~~Whether in spite of fashion~~
From a belief that my fair Coun-
-trymen will sooner or later recover
from this present delirium respecting
their Dress, I shall advise them to

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wear flannel drawers as well as
waistcoats next to their skin in cold
weather, and to protect their feet with
leather, ~~shoes~~ over their moccasins, or
silk shoes.

From the first of January to the
last of December 1881
the total amount of
the ~~sum~~ ^{sum} was \$100.00
the same.





Of preventing diseases from bad Air.

The Air induces diseases ^{tho} by its sensible qualities such as heat, cold, moisture and dryness, density and rarity, and ^{tho} by its insensible qualities, that is by certain ^{foreign} matters ~~being~~ being diffused or mixed with it that do not belong to it in its natural state.

I have already pointed out the means of defending the body from the noxious effects of all the sensible qualities the Air except its density and rarity, and these are so few in number, and so feeble in their operation ^{they} act singly, that it will be unnecessary to mention them.

If the ~~foreign matters which with~~ ^{with,} ~~themselves in the Air are numerous;~~ ^{or} I shall briefly ~~enumerate them~~ ^{simple}

as the air appears to be it is composed
when in its healthy state of three parts
which the Chemists call ^{azote} ~~azote~~ - Oxygen gas
~~and Carbonic acid gas~~, of the first
72 of the parts of what the Chemists
call Azote, 27 parts of Oxygen gas, and
one of Carbonic acid gas. It is probable
Other matters enter into its composition,
but Chemical tests have as yet discovered
~~not~~ no more than those that have
been mentioned. Many matters are
mixed with the smaller air or are diffused
through it which are foreign to its
nature, and which are a source of
~~many~~ diseases. These are exhalations
from putrefying vegetable & animal
substances. from living animal

bodies in a confined, or unhealthy
 state, - from expired air, - from
 the Air discharged from calcareous
 substances and fermenting liquors called
 Carbonic acid gas - Inflammable Air
 called Hydrogen Gas, - exhalations from
 minerals and Springs - the Effluvia of
 certain manufactures, and the odors of
 certain spices and flowers.

The exhalations ^{or miasmata} from putrefying
^{called arising} vegetable and animal substances con-
 -stitute ~~the~~ ^a fruitful source of un-
 -diseases from ^{the} Air. In order to the
 production of these exhalations, heat
 moisture and fermentation must con-
 -cure. of course they exist only in

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

hot climates, and seasons. In the United States they produce their ^{peculiar diseases} morbid effects only in the summer and autumnal months. These ~~yellow fevers~~ are yellow fever, bilious intermittent, Intermittent, Colic, Colera morbus, Dysentery, Diarrhea, ~~Spasmodic~~ inflammation of the eyes, and head ach.

The means of defending the human body from these diseases so frequent and often so fatal into the United States divide them: - into two heads. I shall

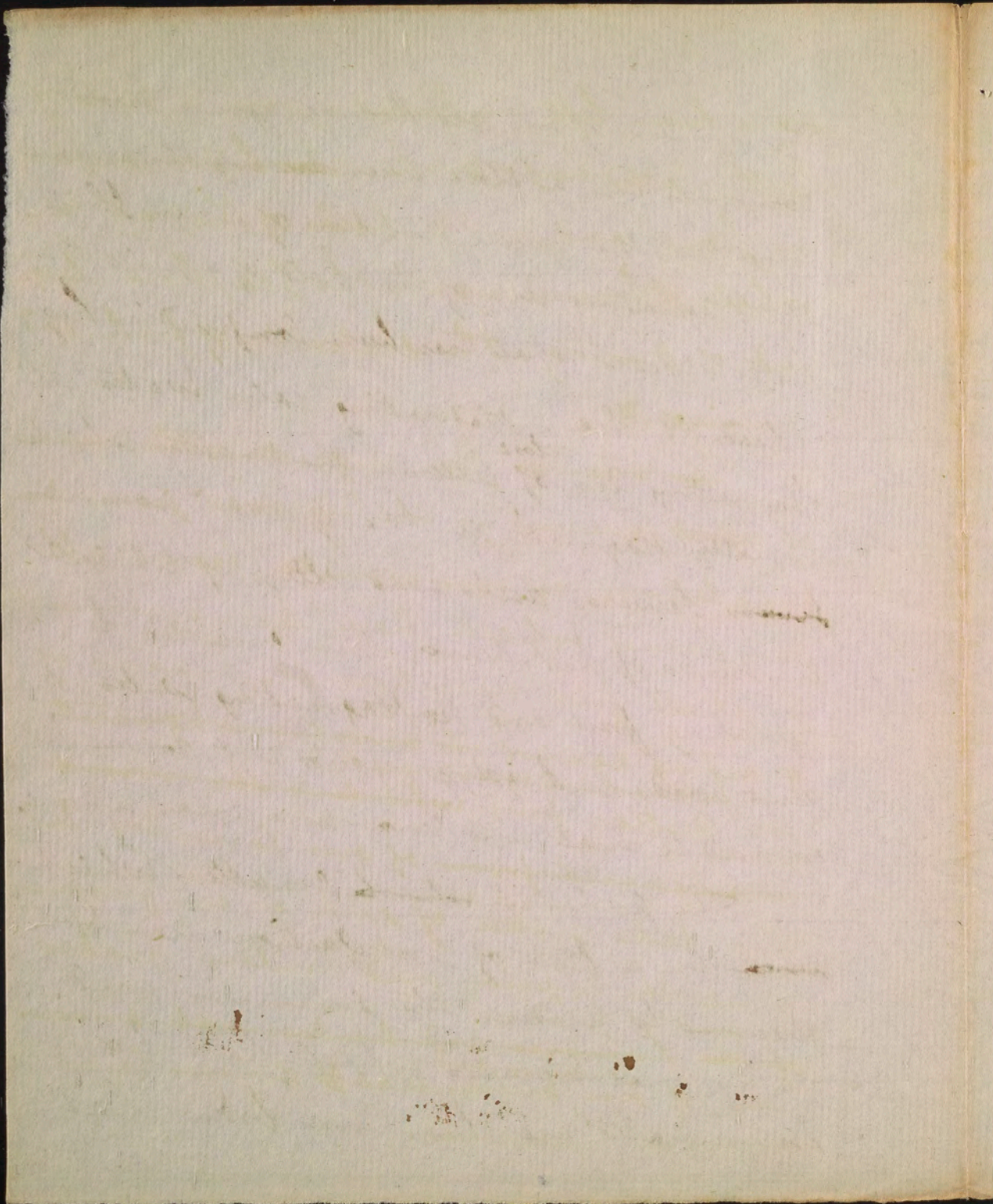
The Vegetable matters which ~~have been found~~ ^{when in a state of putrefaction have been found} to produce these this formidable class of diseases,

are exhalations from marshes, Cabbage, potatoes, pepper, Indian meal, Onions, mint, aniseed and carawayseeds, Coffee, Chocolate shells, cotton, hemp, flax, straw, the canvass of old ~~low~~ tents, old books and paper money,

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

the timber of an old house, green wood
 confined in a close cellar during the summer
 months, the green timber of a new ship
 the stagnating Air of the hold of a ship, Bilge
 water, water that has been confined in hog-
 =head, at sea. Stagnating rain water, the
 stagnating Air of ^{close} cellars - the matters which
 usually stagnate in the gutters. Common
 sewers, sewers, docks and alleys of cities &
 in hinks of Kitchens, Air emitted by
 agitating foul and ~~the~~ stagnating water, a
 duck pond, a hogstye, weeds cut down &
 exposed to heat and moisture near a house.

The animal ~~which~~ matters which
~~when~~ in a state of putrefaction have been
 observed to produce the summer and
 autumnal Diseases which have been
 enumerated are human bodies that

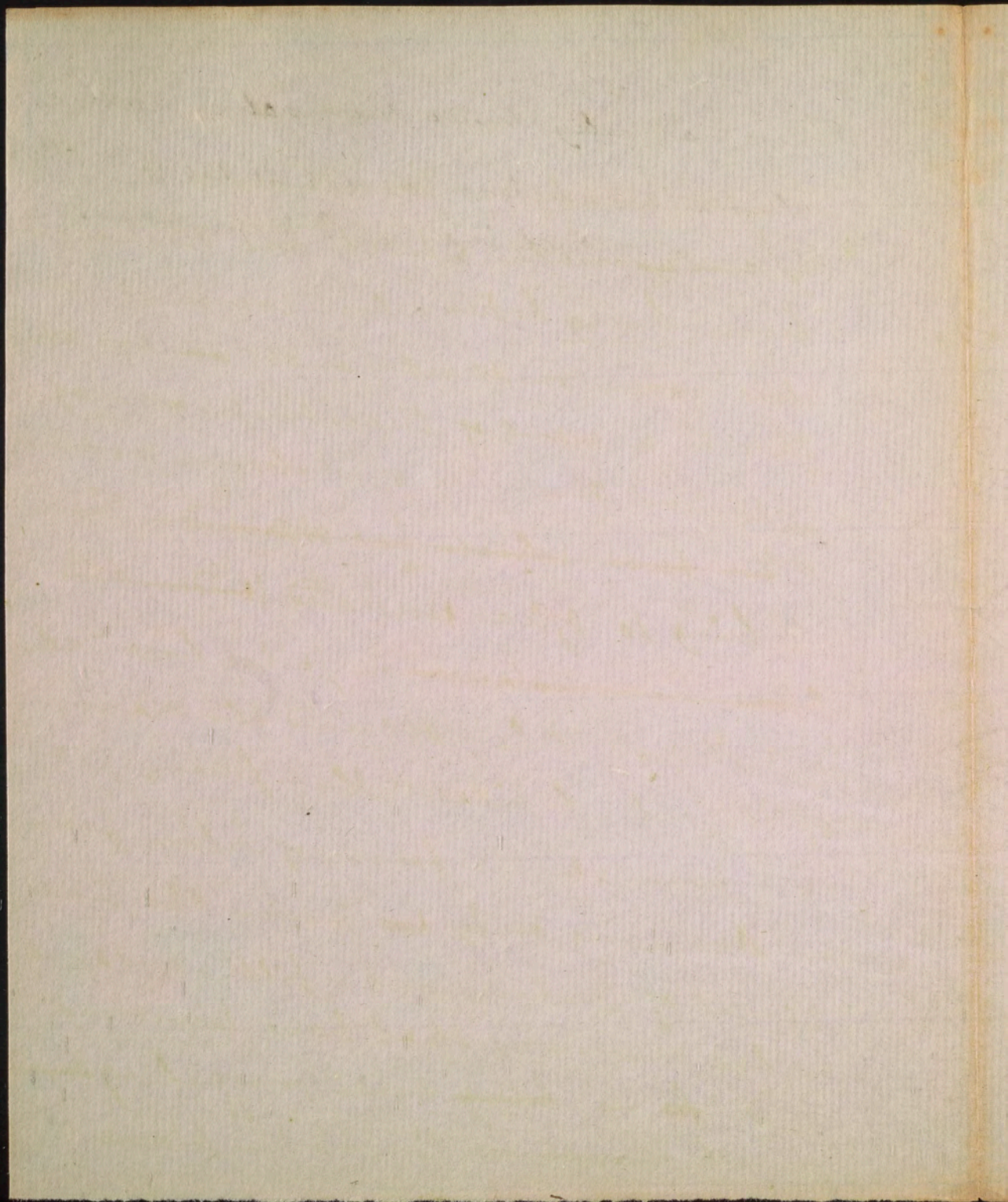


have been left unburied upon a field of
battle, salted beef & pork, ~~and~~ birds confined
in stores, and in the holds of ships, - a
whale thrown upon the sea shore, large
beds of Oysters, - the entrails of fish, and
privies.

~~The means~~ In suggesting the means
of ~~defeat~~ preventing the Diseases from the
exhalations or emissions from all
the sources which have been enumerated
I shall first mention the means of
guarding against its ~~most malignant~~
^{infectious, and malignant}
the Yellow fever which is the ~~most~~
~~malignant form~~ of our Country, &
then take notice of such as are proper
in all the inferior and milder grades
of ^{our} ~~the~~ ~~typhus~~ and ~~intermittent~~ diseases
of ^{summer, and} ~~our~~ ~~intermittent~~ diseases that
have been mentioned.

+ These directions ~~for presenting~~ which
follow are an abridged extract from
the 4th volume of the author's meti-
-cal inquiries and Observations. They
have been read chiefly by medical
Gentlemen. They are now put into a
a shape which will render them intelligible
to all classes of readers. Some of the directions
have been introduced in the former part of
this work, but ^{the authors suggests} they will be more im-
-pressive from being repeated in a Conclu-
-tion with ^{that are} facts related to them.

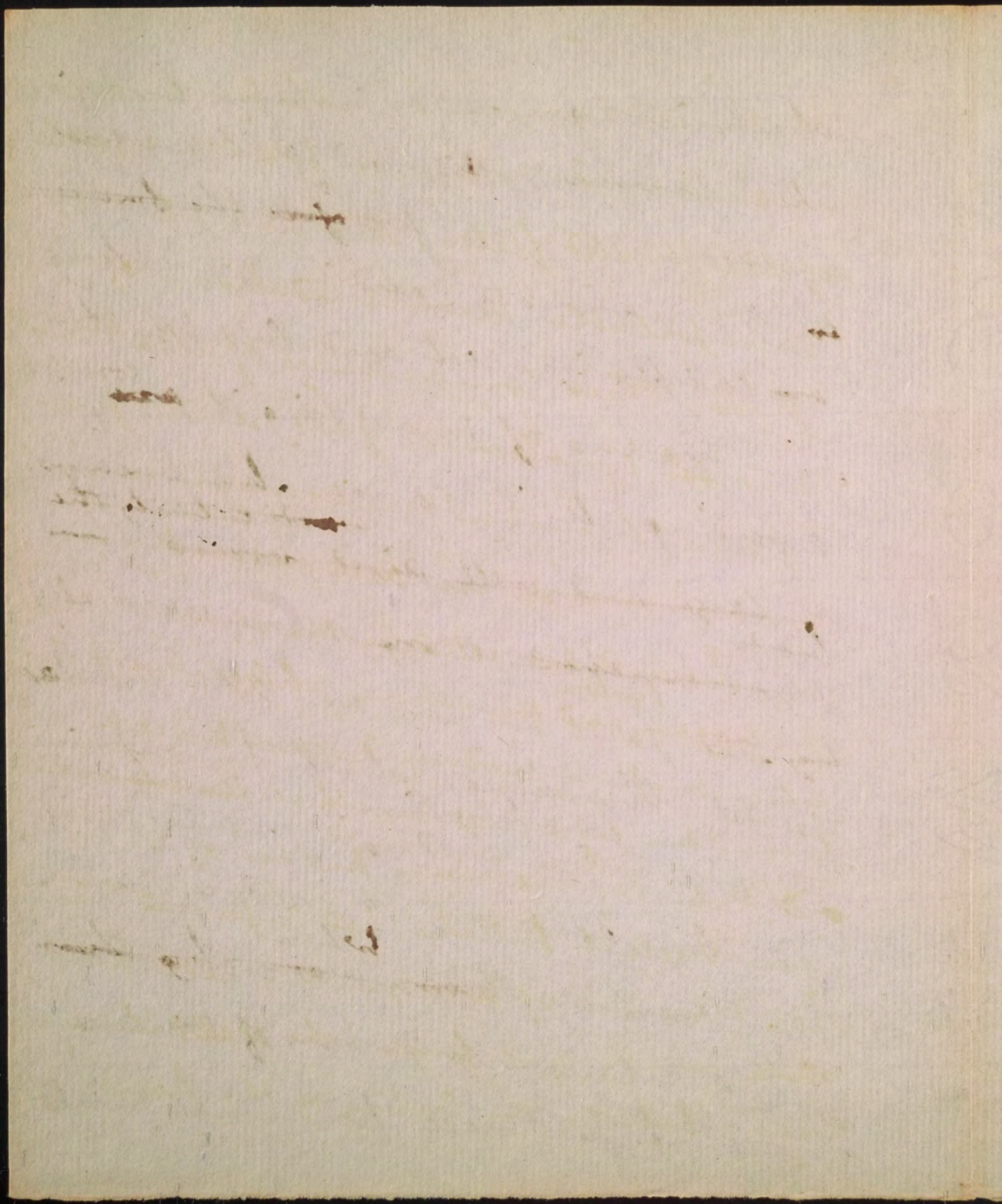
These naturally divide themselves again,
- here introduce from p: 178 to 220 of the 4th
volume of critical inquiries & observations.



Health and life are sometimes endangered
by ^{the} miasmata which are discharged
from living bodies when confined in
close rooms or apartments, ~~and~~ and where
there is a want of cleanliness, and of a
sufficient quantity of wholesome provisions.
~~The fever which has obtained from~~
its being so often generated under the
above ~~circumstances~~ in jails, hospitals,
and ships, it has obtained the name
of the jail, hospital & ship fever. It dif-
fers from all the forms of bilious fever
in appearing only ~~too~~ under the circum-
stances of confinement, filth, and scanty
or bad provisions that have been menti-
oned, ~~for~~ in being ever prevailing ~~beyond~~
generally ~~throughout~~ beyond the places in

✓ In attacking persons of debilitated
habits chiefly, in not being attended
with remissions or intermissions,
nor with bilious discharges ^{or} in
early with inflammatory symptoms,
in being of a more protracted ~~and~~
or of longer duration,

which it is generated, in being contagious,
 when persons predisposed to it are ~~with~~
 exposed within ten feet ~~of the source~~
 to its emanata, and in prevailing
 chiefly in cool and cold weather.
 The means of preventing it ~~are~~ ^{consist} in
 avoiding all its causes. ~~by means~~
~~of large and well aired rooms, by~~
~~cleanliness and by more especially~~
~~by the foul linen and other articles~~
 of bodily cloathing, which by confining
 the perspiration ^{for a long time} ~~renders it~~ putrid, acid,
 and thus disposes it to produce fever.
 The cloathing ~~when worn by them~~
 infected, retains its power of commu-
 nicating the disease for several months.



It should therefore be carefully washed,
or destroyed. Happily for the people
of the United States, the ample, or
comfortable accommodations of the
poor, their competency of clothing
and the wholesome food under fences
from human misdeeds very
uncommon in our country.

Aspired air called by the Chemists Azote,
nitrogen, ^{system} and sometimes phlogisticated Air
when confined, produces disease & death. Dr.
Franklin informed me that the celebrated
Dr. Hales the ingenious Author of the treatise
upon Vegetable Statics, had informed him
that three out of four persons had perished
with malignant fever who seated themselves
near a hole in the Ceiling of the house of

It should therefore be carefully
understood. Efforts for the purpose
of the United States, the Congress, or
any private person, in relation
to the Constitution, and in the
face of the law, are not only
unlawful, but also dangerous.
The Congress, and all by the President,
and the Court, are the only
authorities, and no one else,
in this country, has the right
to interfere with the
Constitution, or the
rights of the people.
The only way to
change the Constitution
is by the people,
through their
representatives in
Congress, and
the President, and
the Court, and
no one else.

✓ The Air impregnated with the
fumes of lead, is and which is so
injurious to all those Artificers that
work in it has been rendered in-
offensive by a Diet of fat meat.

Oil of any kind taken plentifully
~~by way of~~ ^{as} Aliment is calculated to
produce the same salutary effects.

~~It is~~ ~~the~~ sitting or sleeping in a room
in which this air is confined should
be carefully avoided. Apoplexy, and
death have often been induced by it.

The air from burning Charcoal, Calca-
rious earths, Alkalies, & fermenting bodies,
& which is known by the names of Calca-
reous acid gas - fixed Air, & sulphuretted Air
often produces redness, sickness, head ache
apoplexy and death. It is sometimes found
in a simple state by nature in wells,
Caves, and upon the surface of the earth.
It may be known by suddenly extin-
guishing a Candle. This ~~is~~ ^{is} test of
its presence ~~is sufficient to deter from~~ ^{should}
exposing ourselves to it.

✓ The other sources of impure Air
that have been mentioned are so

✓ it will not be necessary for us to live
or to travel with a Radiometer in our
hands to determine the impurities of
^{we breathe;}
the air, ^{on the contrary}

uncommon in the United States, and so rarely hurtful, that it will be unnecessary to suggest any Cautions to prevent their inducing either disease or death. —

^{Rules}
The ~~facts~~ that have been delivered upon the subjects of Cloathing and Air if attended to will save much trouble in detailing the situations in which ^{Health} life and life may be preserved to the most Advantage. With the ^{Advantages} ~~Advantages~~

we are capable of deriving from exposure ^{the city and the Coun-}
= once and season, ^{no spot in the United}
= try, ~~States should be considered as unhealthy.~~
the hill mountains and the Vallies
and the shores of ^{our} rivers, ^{from} ~~and the~~
St Louis to St Louis, and the
plains remote from them, the lands
of Georgia, and the ^{in the United States} ~~fertile~~ soil of Maine

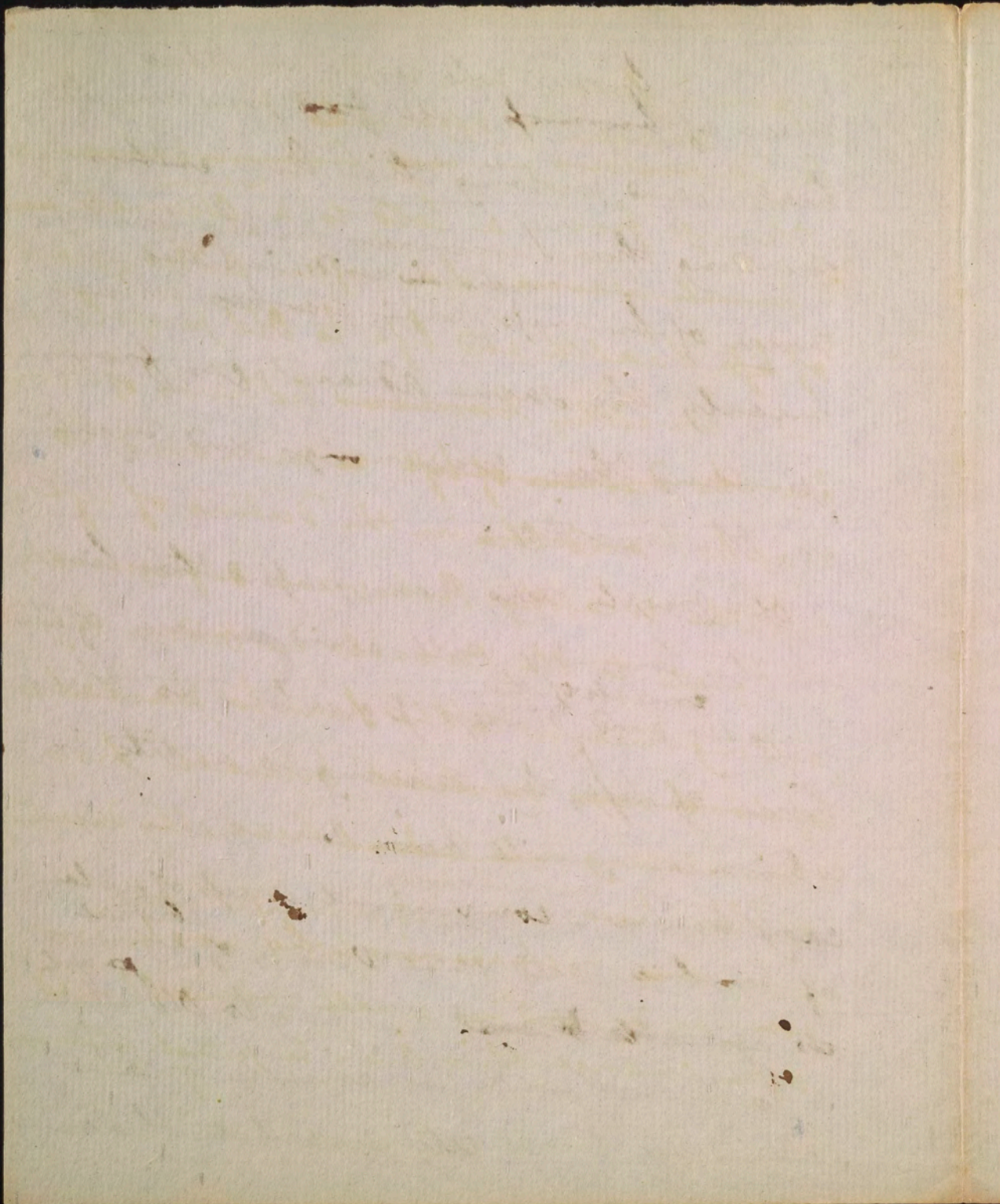
V deficient state of knowledge and industry
in individuals and public bodies with
respect to the means of obviating the
diseases ^{which arise} from the insensible qualities
of the air,

may all be inhabited, ~~and~~ by persons
in good health, and since the diseases
incident to each of them be avoided ~~The~~
this were ~~the~~ not the case, the greatest
part of our globe ~~was made~~ was made
in vain. I except from this
general remark, persons predisposed by
previous debility to
particular Disease. The situations with
respect to Air, as well as other things
which ~~influence~~ ^{are proper for such persons} health shall be taken
notice of hereafter.

In the present ~~state~~ ^{ignorance & indolence with} of ~~various~~ ^{changing} ~~globe~~
~~respect to the~~ benefit will be derived from ~~changing~~
~~the air~~ ^{it} by the following Classes of people.
Children born in Cities should pass their
Summers for the first seven years of their
lives when practicable in the Country.

Persons who reside in Cities
 men of business will ~~find~~ preserve their
 health, and prolong their lives either by
 spending their Summers in the Country,
 men of business, ^{who live in Cities} will ~~be~~ derive
 nearly the same Advantages from
 spending their evenings and nights
 in the Country.

Old people who have passed their lives
 in the Country will avoid many of the
 Diseases ^{much of the} and Distress peculiar to their
 time of life, by retiring to a City in
 which they will have company upon
 easy terms, - ^{warm houses,} convenient Access of a place
 of worship, and that Variety of ^{social} Amusement
 (so agreeable ~~to~~ company to Old ^{people}) which
 is to be met with in much greater
 abundance in a City market than



upon a farm.

A ~~To persons~~ ^{old people} ~~in very circumstances, a~~ Affluence
Change from a Cold, to a ^{warm} Climate ~~and~~
~~family~~ ~~has~~ often added years
of life health and life to Old people.
The wealthy ~~Romans~~ Citizens of Rome
~~in the decline of life~~ ~~is~~ removed to
villas, ~~and~~ ~~the~~ in the decline of life,
and the wealthy Portuguese & frequently
migrate to the Brazil in order by
getting nearer to the Sun to protect
~~of his rays~~ protect beneath his
stimulating ~~and~~ ~~cardiac~~ heat, the duration
of their lives. — and manufactures

~~man~~ mechanics who work in
companies, and in small rooms should
often change their air. see pathol. & Therap.

upon a former

to the present

change from a job to a character

of life health and life to the present

the wealthy business

the business of life - a business of life

the business of life - a business of life

the business of life - a business of life

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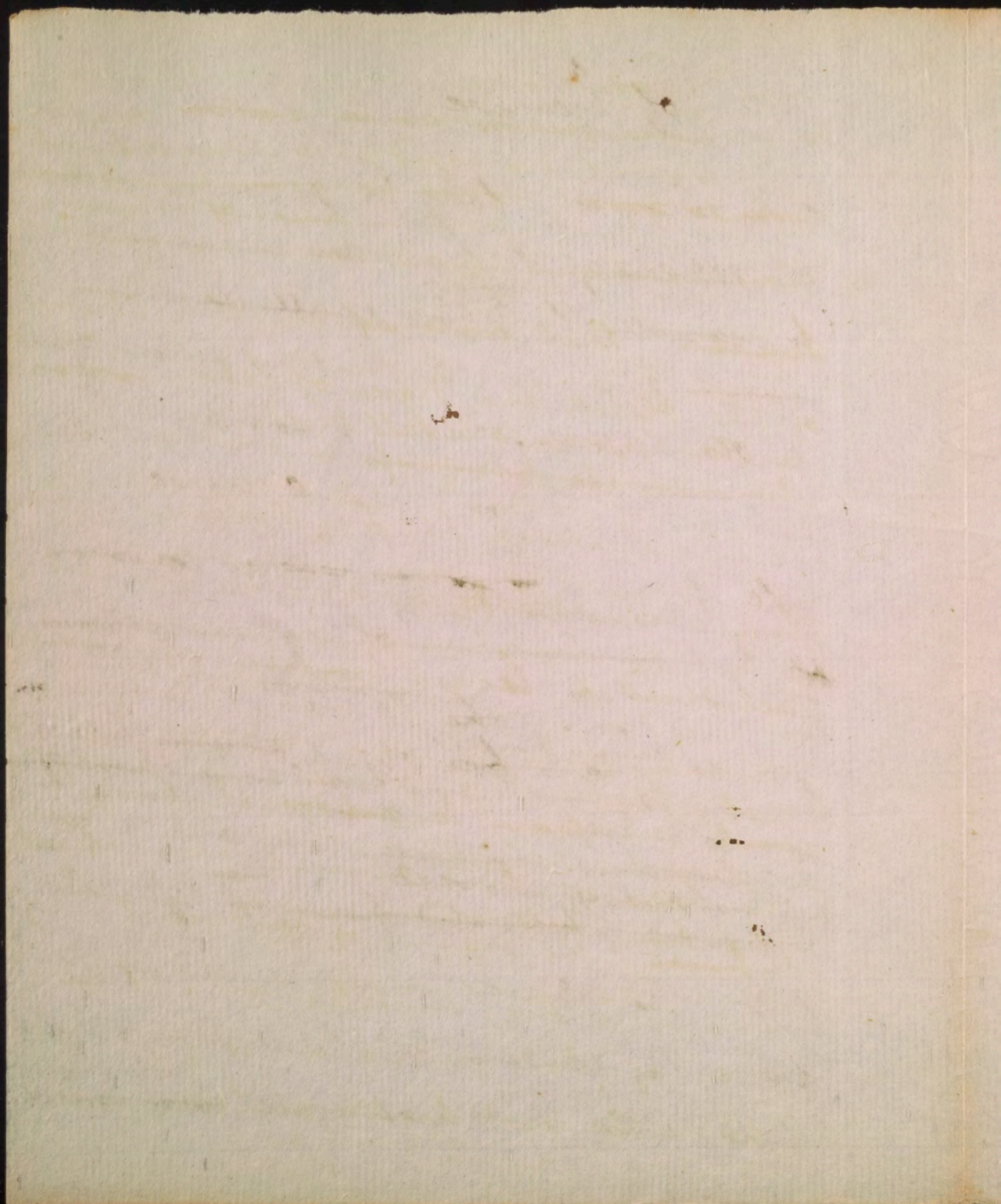
the business of life - a business of life

of Exercise

The human body is so contrived that the actions of its muscles is necessary to ^{healthy} ~~promote the action of all its other~~ ~~parts~~ keep up the healthy actions of all its other parts. This is effected by means of labor and exercise. —

The former ^{was not only the means} ~~was not only the means~~ ~~of man's existence, but of his innocence~~ ~~and happiness~~ ~~It was the mark of his innocence~~ ~~in paradise.~~ ~~It was it is true~~ ~~in its degrees & limits~~ ~~to be carried on with original pleasure.~~ ~~a pleasant nature.~~ ~~The only~~ ~~was he deprived of it~~ ~~was not abstracted from it~~ ~~After his~~

fall. The objects were extended only from the garden to the wilderness & the field, and the degrees of it ^{which} ~~were made~~

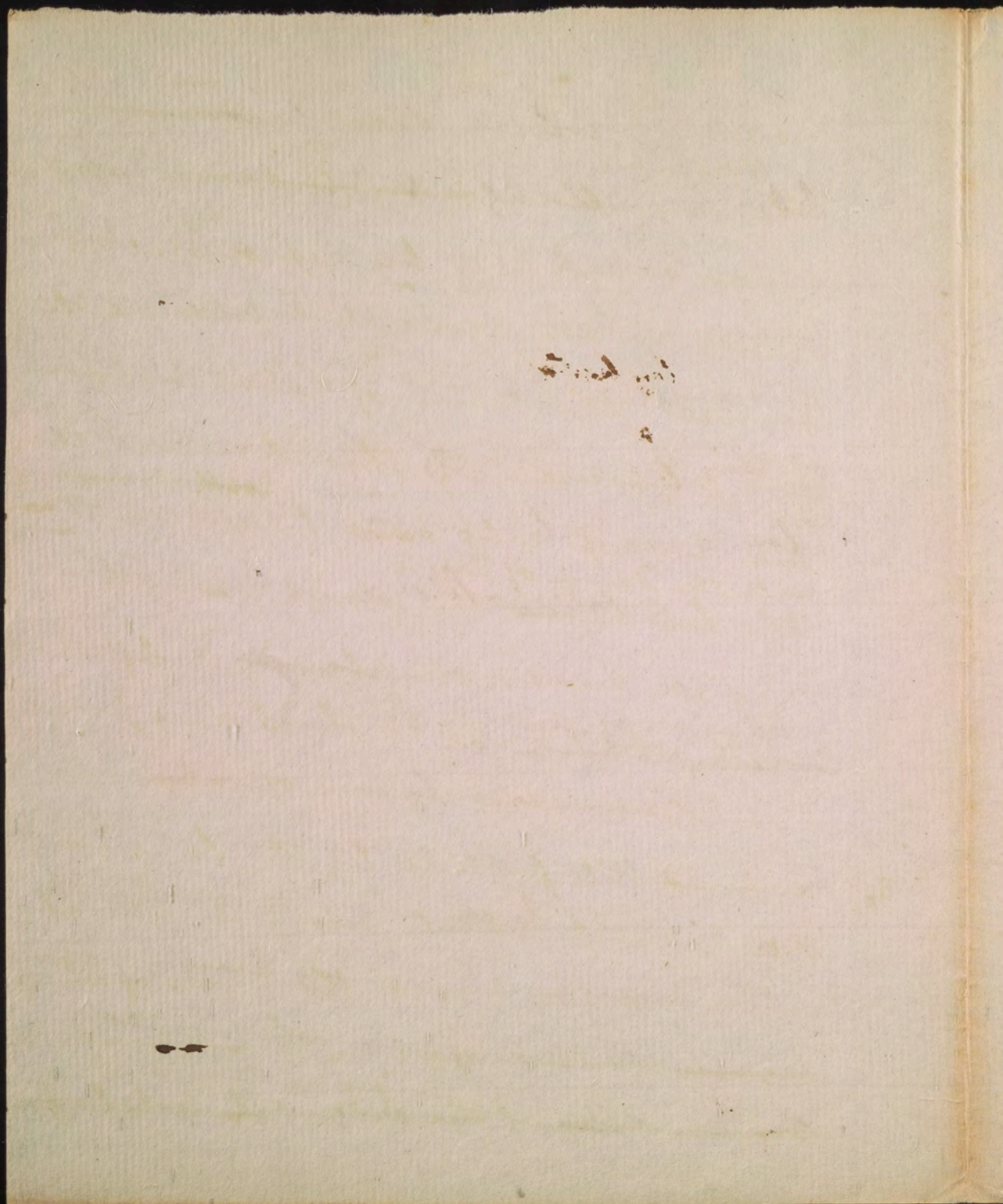


were made necessary to his subsistence
~~to much greater as to extra~~ were
so much increased as to induce a sweat
~~not so great as to be accompanied with~~
upon the sweat of his brow with
~~these exertions that cover the body with~~

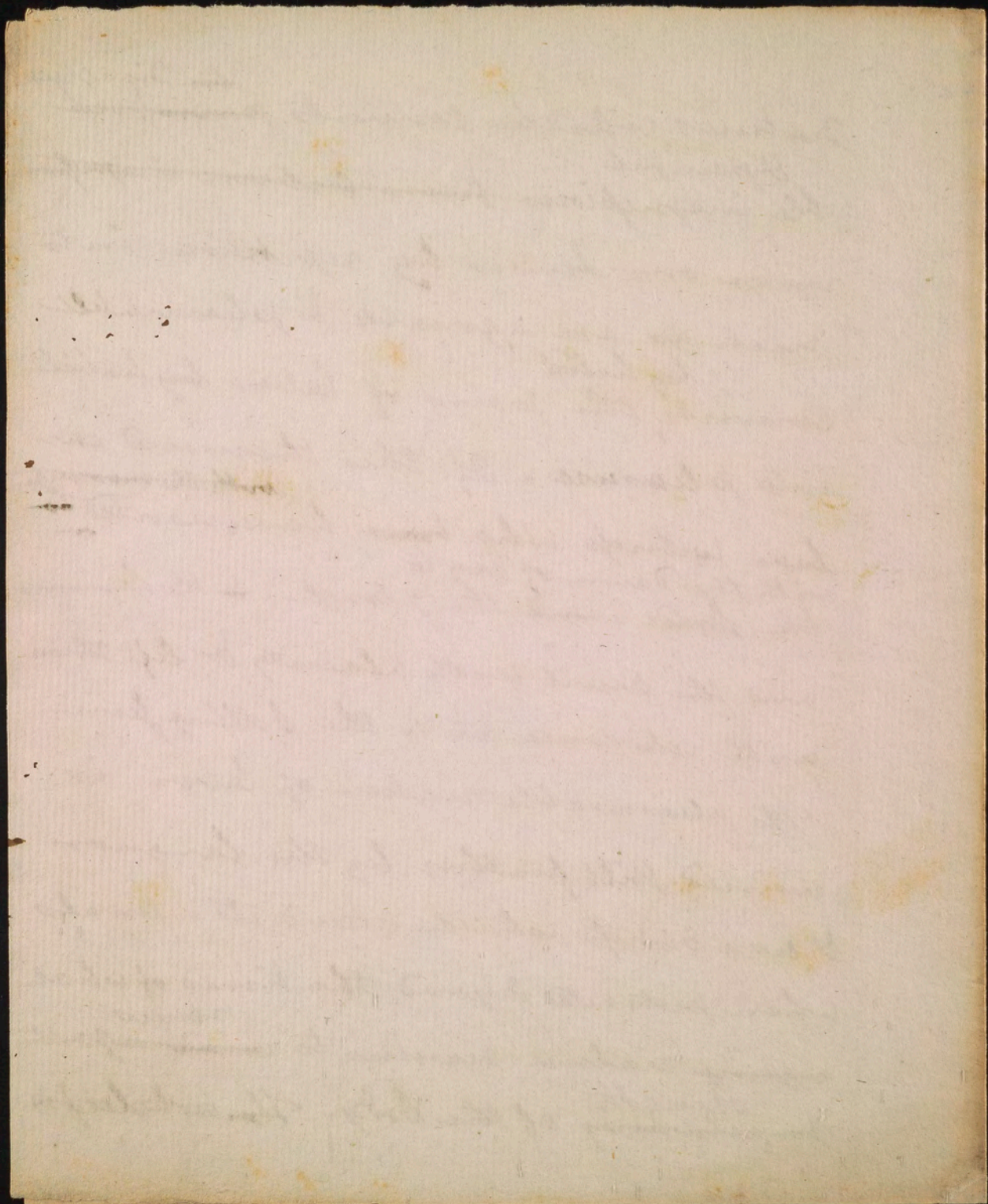
Sweat. But even in this change
of the objects and degrees of labor ~~the~~ ^{the} ~~creator~~ ^{creator} appear to be still kind
~~discovers its kindness to man.~~ the
changes which his ^{had} introduced into
his mind ~~body~~ as well as his body
rendered a larger portion of those
means which were intended to prevent
~~it~~ ^{it} necessary to ^{cure} ~~remove~~ it, and the
the ^{mark} ~~body~~ of this additional labor ~~that~~ ^{upon}
his brow, the means of rendering it inof-
~~ferent~~ ^{ferent} to his constitution. The
truth of these remarks is manifest
from the good health or happiness &

longevity which have accompanied
 labor in all Ages & Countries. Where
 it has been otherwise, it has been because
 tyranny has rendered it excessive in
 its degree, or deprived the subjects of it
 of the Quantity of Aliment, and
 Clothing which ^{were} necessary to
 render it tolerable, or where folly
 and vice have connected it with
 the Use of ardent Spirits.
~~intemperance &c~~

I have said labor is conducive to
 the preservation of health and the
 cure of vice, ~~both~~ when submitted to
 in the degree intended by heaven; it is
~~always attended after a while with~~
~~pleasure. This the original connection~~
 but the same law of our
 nature.

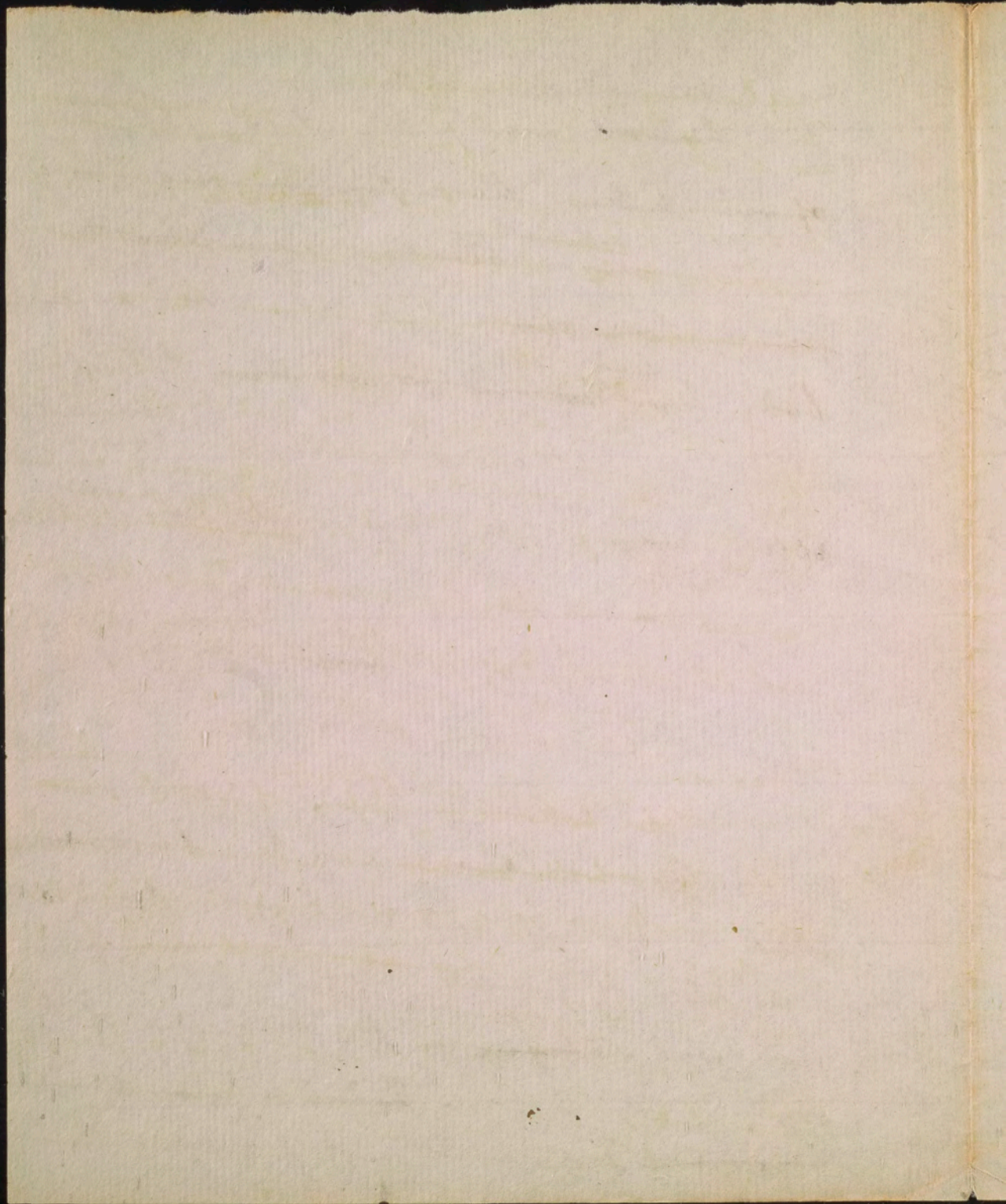


natures which converts ^{the disagreeable} ~~painful~~
& painful
the impressions ~~from certain impressions~~
upon our senses by repetition into
such as are agreeable & pleasurable
by habit
converts the pain of labor by habit
into pleasure. Of this thousand can
bear witness who ~~have~~ ^{with the morning} have resorted
with the dawn of day to
the loom, and the plough, to the hammer
and the anvil with alacrity & left them
with reluctance with the setting sun.
Its pleasurable nature of labor is
winced still further by the languor
& even distempers which attend its intervals
when protracted beyond the times of which
nature requires to ^{renew} wind up the
^{strength} machinery of the body. The whole is



obvious & acknowledged
 this ~~history~~ friendly operation of labor
 of our ladies has often ~~consolidated the~~
~~author~~ ^{in beholding} ~~is in wanting to see~~ which
~~has~~ is both ~~also~~ upon the human
 body ~~has led us to suppose~~ ^{leads to a} belief
 that it is attended with the ^{pleasant} ~~same~~ ^{is}
 effects ⁱⁿ ~~upon~~ other animals, and thus
^{calculated to} reconcile us to our moderate and
 just exactions of it ^{from these,} ~~from labor~~ for
 our benefit or our pleasure.

The however necessary, useful, and
 even pleasant labor may be, it is plain
 that the business and duties of civilized so-
 ciety plainly indicate that it cannot be
 universal, ^{after} ~~shown in~~ the manner of its
 original institution. ~~From a sense of its~~
~~importance~~ taught by suffering from the



neglecting it, man has resorted to Exercise
as a Substitute for it. ~~It has many~~ ^{God made labor}
~~of its Advantages, but after all it is so far~~
~~inferior to it~~ ^{labor} ~~that it carries with it marks~~
~~of its origin its~~ ~~but man~~ ~~is~~ ~~with~~
all its Advantages, it is much inferior to
labor in it. Thus we see God made labor
but man made exercise. ~~However~~ ^{as the latter} useful
an it may be, it carries ^{marks of} its ^{inferior origin} ~~inferiority to the~~
~~former~~ in its being less constant ^{or} more partial
and often more deficient or excursive in its degree
than that which ^{is} the Gift and Command of
Heaven.

^{is necessary to the following}
Bodily Exercise ~~the following~~ ^{Classes of people.} ~~have~~

- 1 Persons ~~wholly~~ ~~in~~ in affluent & independent
Circumstances who are not engaged in business.
- 2 Idlers men who ~~labor with their~~ lead
sedentary lives.
- 3 Artificers who labour with only a part of
their bodies, and
- 4 Invalids.

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Bodily exercise has been divided into active
passive and into that which partakes of
each of them, or that is of a mixed nature.

~~It is further divided~~

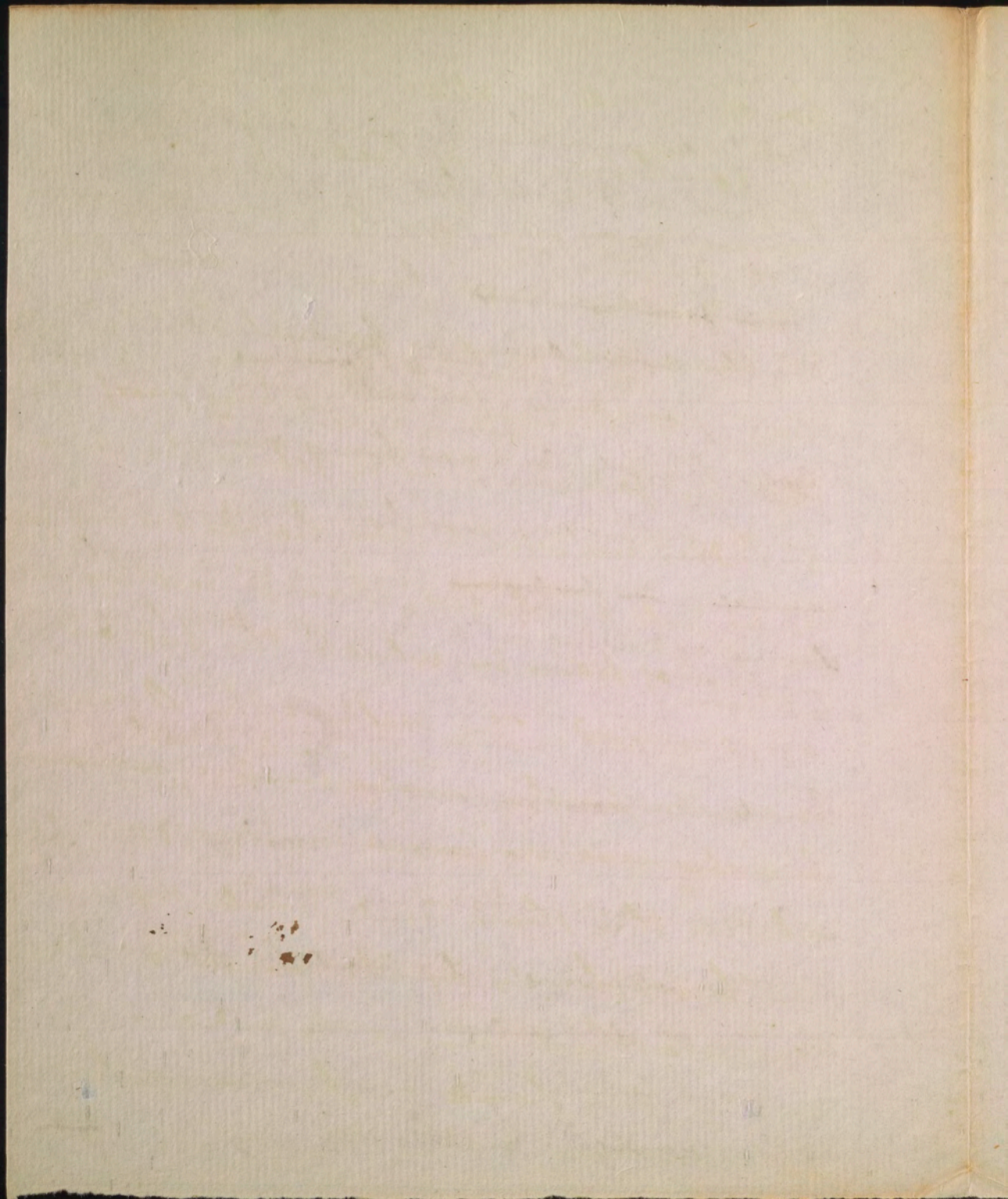
To the active exercises belong walking, run-
ning, jumping, ^{swimming, dancing,} ^{quoits,}
reading aloud, singing
Golf, Shuttle Cock and ~~some others~~

To the passive exercises belong riding in a
Carrriage, ~~in swinging~~, ~~sitting~~ in a Cradle
swinging, riding in a Carrriage ~~travelling~~ &
frictions.

To the mixed exercises belong riding on
horseback - rowing, and some others which are
taken from labor such as rowing, digging in
a garden, cutting & sawing wood.

The following rules should be observed in
the use of all exercise.

1 The whole body should, when practicable
be exercised. In this way every part of the



to of it will be alike strengthened, and thus
an equilibrium of health be preserved.

Exercise moreover can be protracted longer
in this manner,
and of course more benefit be derived from
it than when it is partial in its opera-

tion. Of this we see a striking proof in
the less fatigue that is felt in climbing
a ladder in which the hands are employ-
ed as well as the feet, than in walking up
a pair of stairs in which the feet only
are exercised. In walking, the Arms

move ^{among civilized men,} ~~unreparably, among civilized nations,~~
~~but this not the case~~ in consequence of

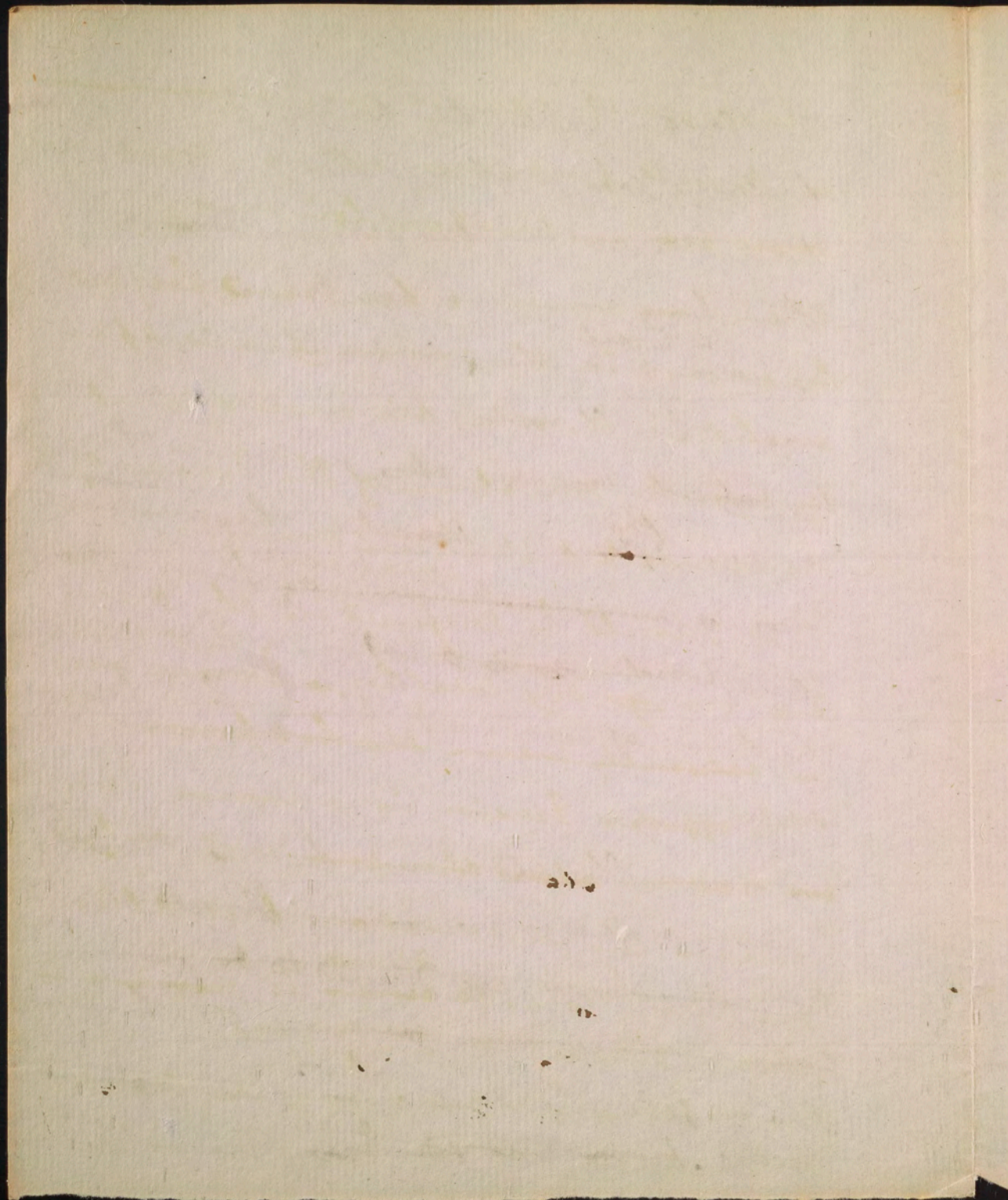
which they share in a small degree with
the lower limbs in the ^{advantages} ~~benefit~~ of that

exercise, but among the Indians who
employ their ^{arms} ~~hands~~ in supporting their
blankets around their bodies, this is not

[The page contains approximately 20 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is too light to transcribe accurately.]

the case, hence they become fatigued ^{from} ~~some~~ walking sooner than their civilized neighbors. To obviate this fatigue ~~they~~ ^{they} in their long marches they take up a stick of wood, ^{or a rail} and carry it in their arms or upon their shoulders for an hour or two, by ~~which means they~~ and then throw it away. By this, ~~propetice~~ ^{they} invigorate ^{impart} their ~~to an equilibrium of~~ ^{equalize the} strength of their whole, ~~and~~ ^{and} bodies, and remove the sense of weariness from their lower limbs.

2 Exercise should never be used ^{until} ~~until~~ it induces fatigue. ~~Persons should~~ ^{Persons} ~~disist~~ ^{disist} from it, as ~~as~~ ^{as} are directed to do from eating, ~~with a desire for more.~~ Whenever this is felt, the system is ^{becomes} predisposed to disease, ~~from~~ ^{from} and the ~~the~~ ^{the} Persons should



Desist from exercise, as we are directed
to shun from an eating - with an
aversion for inclination for more.

3 It is ~~so~~ unsafe when used before
breakfast in the morning, and after
night in the open air more especially
during the prevalence of the diseases of the
summer & autumnal months.

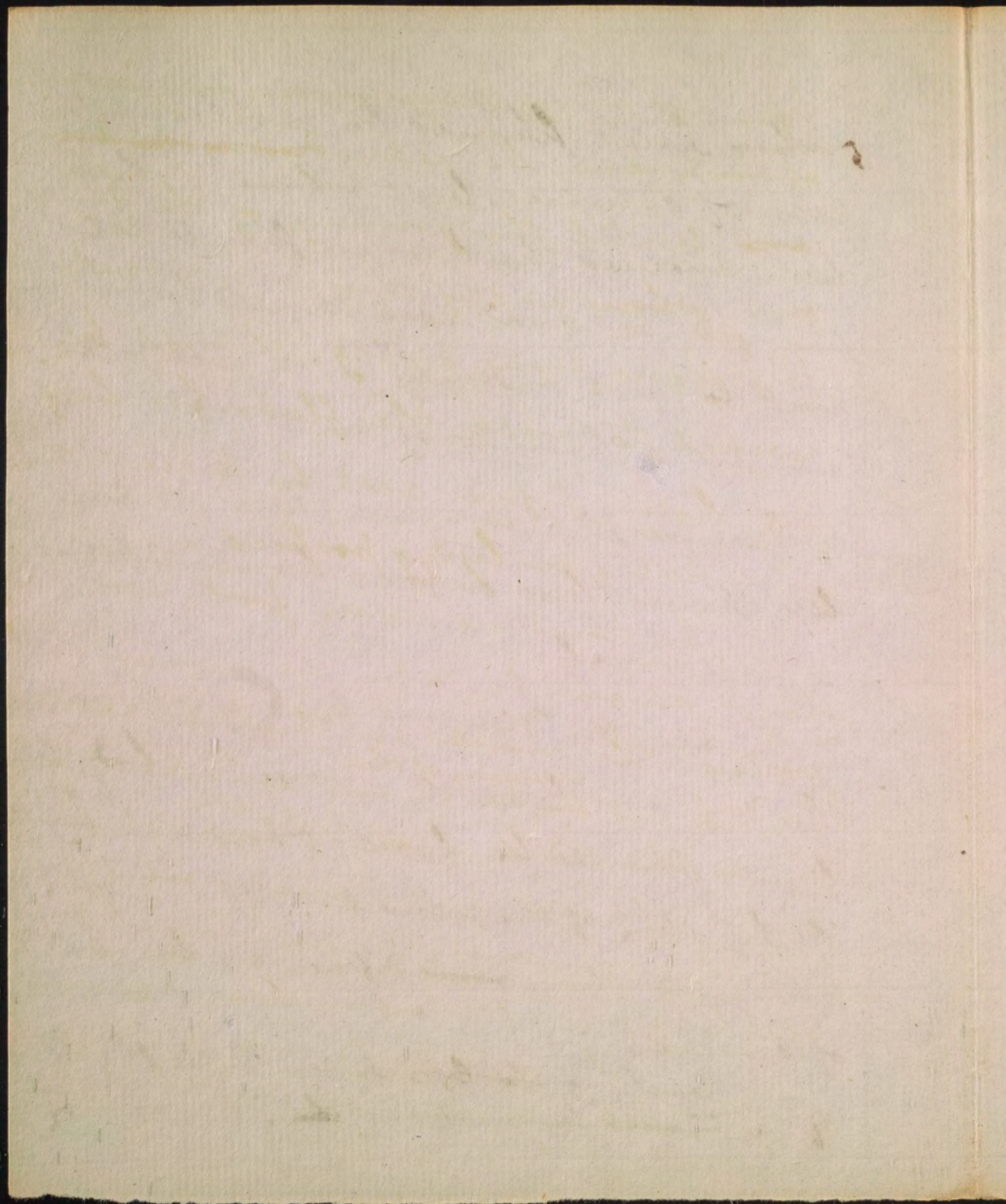
4 It should be preferred in the open
air in ~~of~~ dry weather, ~~but never~~
in extremely warm the hot sun
the effects of exercise in a warm close
room alter the gas not only en-
-creases the perspiration but alters
qualities, so as to ^{dispose} it ~~as it~~ to
produce disease. A proof of this was men-
-tioned in the last page of the Chapter
upon air. -

5 ~~When~~ Great fatigue should be avoided in the use of exercise, but where it has been induced, the dinner should be changed, or great care should be taken not to rest suddenly, ^{nor} in a cool place nor in a current of air.

6 Exercise should never be used in less than three or four hours after a full meal.

7 In all the different kinds of exercise the dress and ligatures upon the body & limbs should be loose, otherwise ^{from} the swelling of the muscles, they will give pain, and thus ~~and~~ defeat the benefits of exercise.

8 ~~It should be noted to the situation of~~ travelling the legs ~~the~~ ⁱⁿ little should

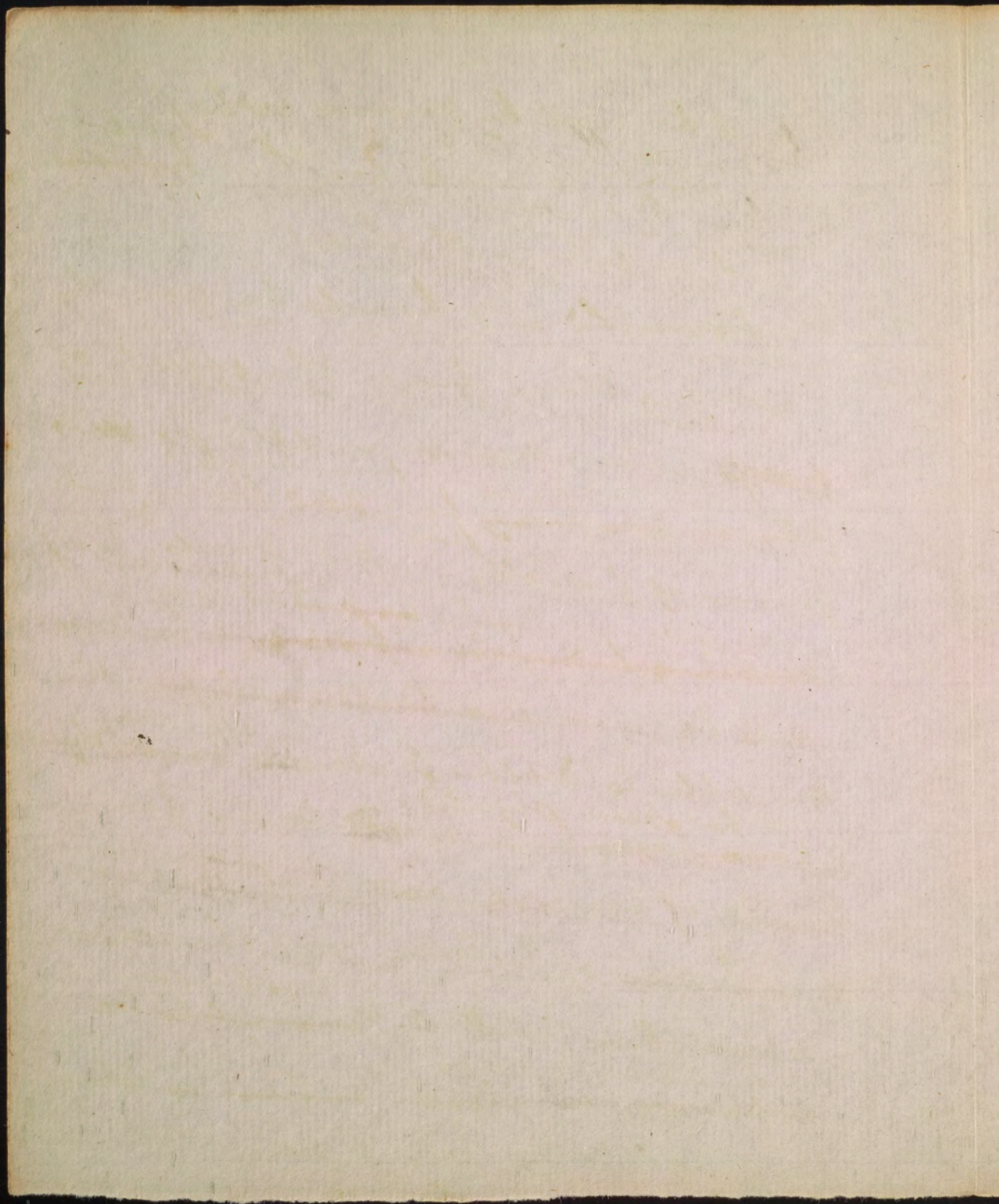


life, age, sex, ~~occupations~~ and season
of the year. he caters ~~during the day~~,
and until the journey of the day is
over, ~~where~~ and if there is a disposition
to fatigue from riding, it will be
useful to walk the floor for half
an hour before rest be taken either
in a sitting or lying posture.

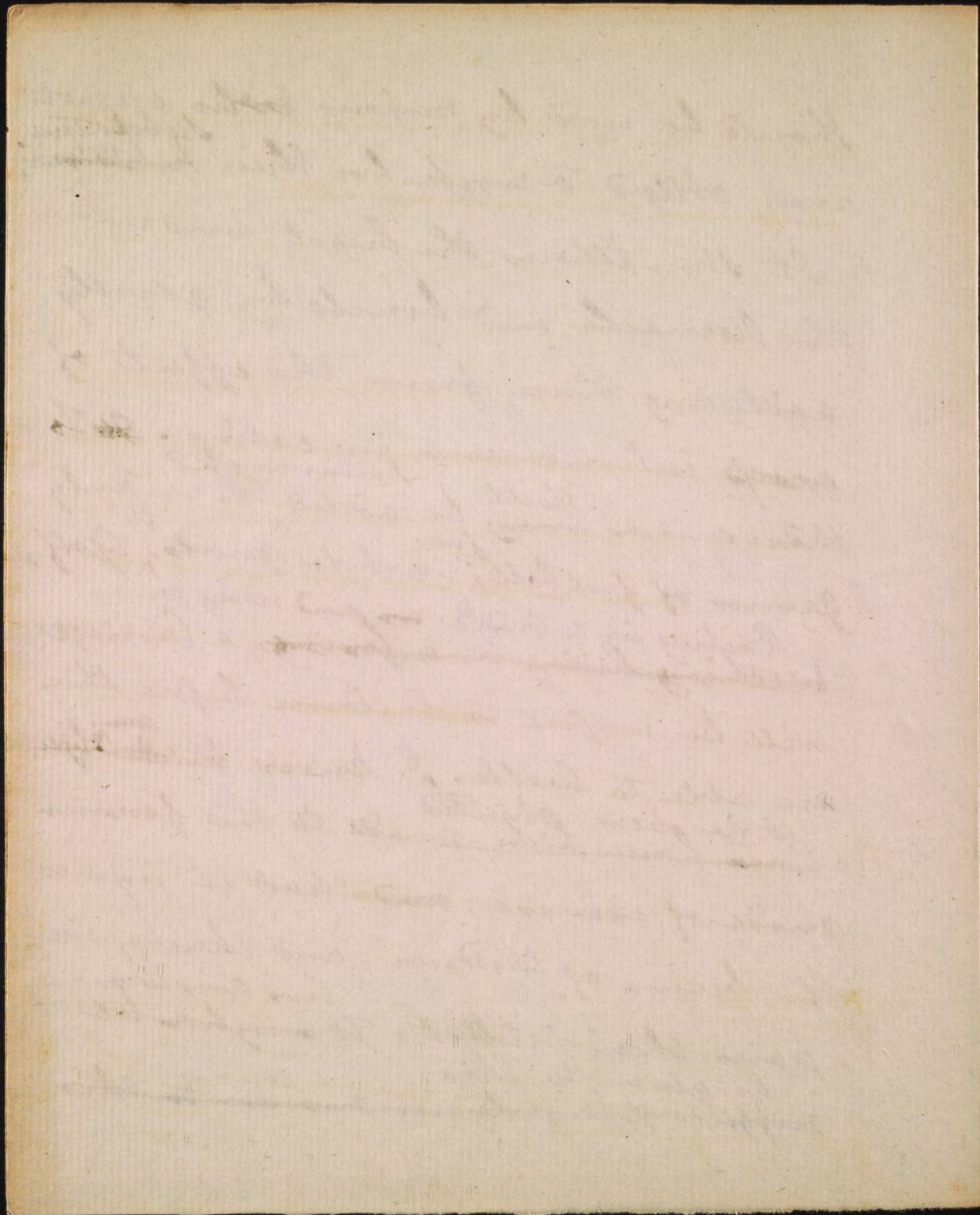
In travelling upon foot, rest
should always be taken in a recumbent
posture. The muscles are thus equally
relaxed, and ^{remains of their} ~~the~~ excitement equalized. The
I was first struck with the ^{sudden} relief from
fatigue obtained by this practice ^{by the} ~~at the~~
soldiers of the American Army during the revolutionary war.
After lying down for half ^{twenty minutes} ~~an hour~~ & a quarter
or half an hour upon the grass, they rose
in an alert manner, and ran to their
quarters as if they had just risen from their beds.

Exercise should be suited to situation in life, age, occupation - season of the year, and predisposition to particular diseases. —

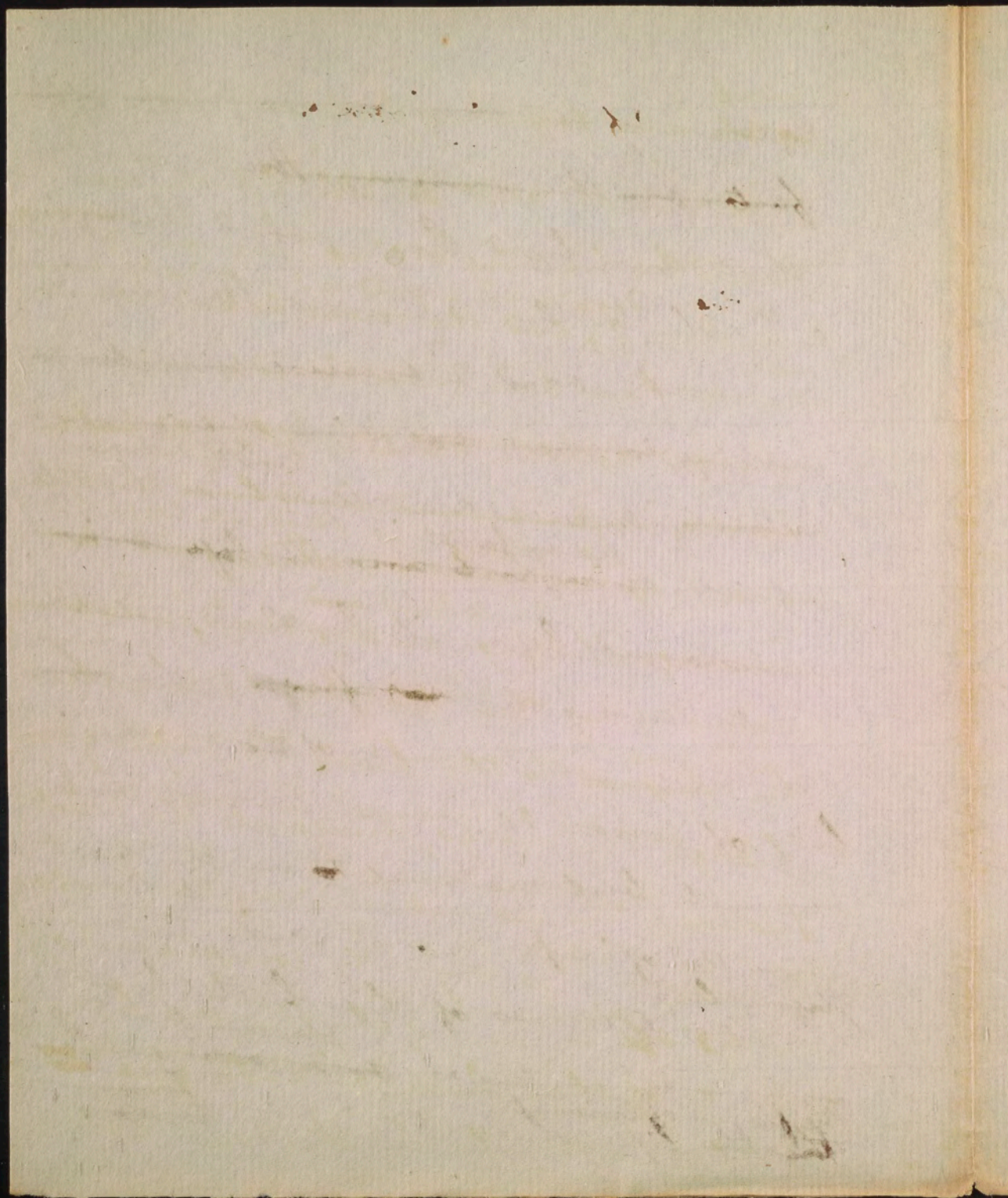
Walking is the best mode of exercise for preserving health, and should be preferred by all persons who are ~~to~~ in easy circumstances. It exercises all the muscles of the body, ~~and particularly~~ ~~it produces a con-~~
~~stant of Air~~ ~~are but chiefly the~~ ^{the effects of}
 lower limbs in which ~~the~~ ^{the effects of} ~~except~~
~~in~~ ^{are} ~~drinking~~ ^{are} ~~most apt to~~
~~show~~ ^{show} ~~themselves~~. It ~~promotes perspi-~~
~~ration~~ ^{the body} ~~and carries it im-~~
 mediately beyond its influence by a con-
 stant ~~and fresh~~ supply of fresh Air.
 Next to walking, riding on horseback



should be used by persons ^{who are not} ~~who~~ ^{substitute}
not obliged to work for their ^{substitute} ~~relief~~
- It strengthens the breast, and restores
the stomach and bowels by gently
agitating them, from the effects of
~~excess~~ intemperance in eating. ~~To~~
these exercises ^{swimming &} ~~may~~ ^{should} be added the manly
games of football, ^{cricket, quoits, & golf,}
Rocking in a cradle ^{and riding in}
~~or riding in a carriage,~~
will be useful to children before they
are able to walk. I know ~~that~~ ^{an} ~~object~~
^{it has been objected}
- ~~that~~ ^{has been} ~~has been~~ ^{made} to the former
mode of exercise, ~~and~~ that it injures
the brains of children, and thereby im-
pairs their intellects. ^{Two answers may} ~~It might be~~
^{be given to this} ~~sufficient to reply in answer to this~~



Objection to say there are no proofs of the
 fact, ^{1st} on the contrary, the wisest men
 that ever lived, have passed through
 a Cradle to their eminent stations in
 the world, and 2^{ly}: exercise similar to
 nursing is that ~~the~~ kind of exercise
 which approaches nearest to that to
 which ^{an infant is} ~~an infant~~ ^{kind of exercise} ~~imparts life it is~~
 accustomed before its birth more espe-
 -cially during the ~~very first~~ ^{from} night, when
 the topings and turning of its mother in
 bed; of course it must be not only
 agreeable, but natural to in the first
 months of infancy. It aids ^{by its gentle} the invol-
 -untary exercises of this little limbs
 as a stimulus in ~~supporting the~~ ^{flaccid} ~~the~~ ^{fanning}
 the flame of ^{from} ~~the~~ ^{the} life while it is in its ~~use~~



weak
~~habits~~ and forming state.

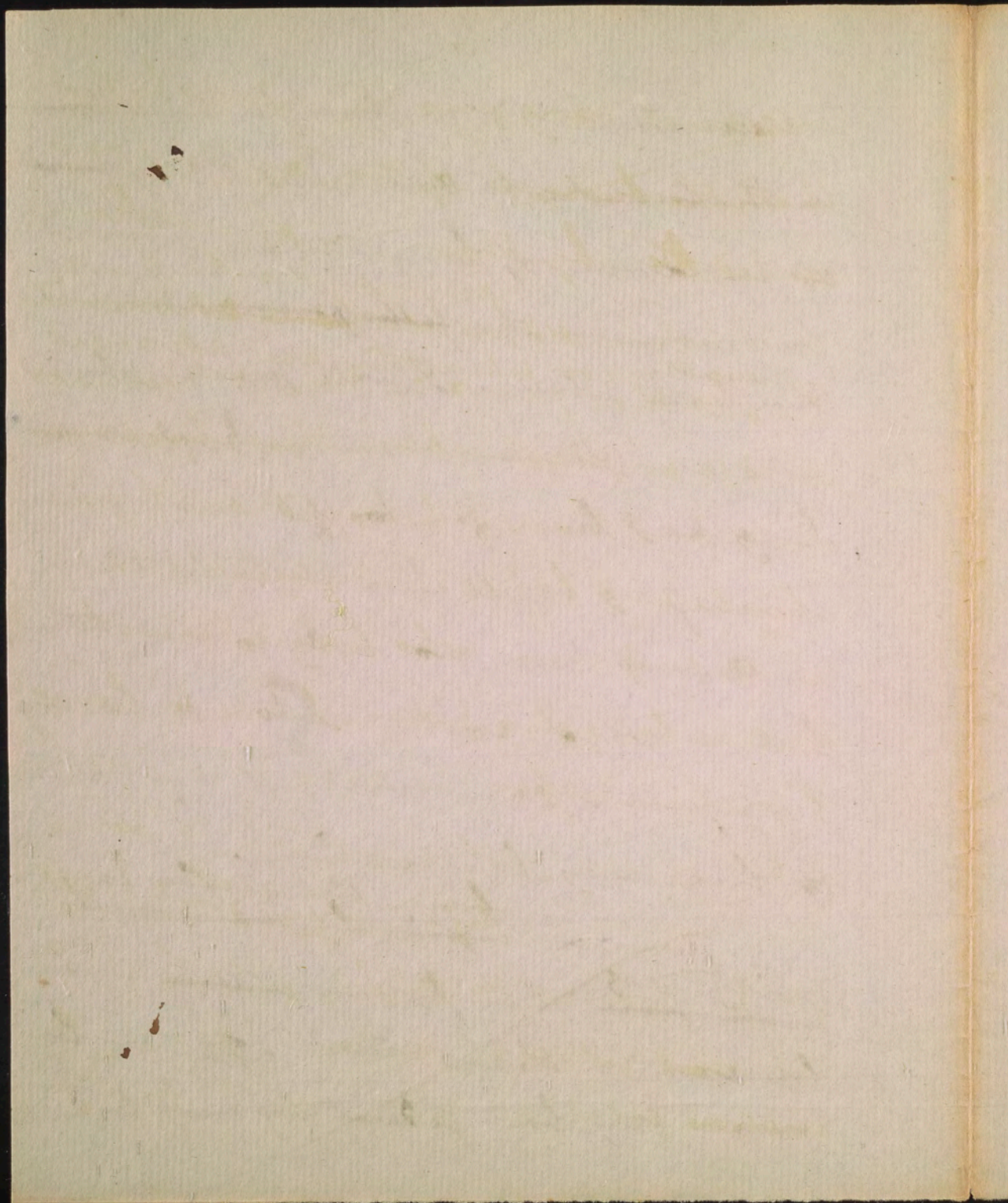
In youth and middle life the exercises
should be walking riding, jumping, ^{dancing,}
^{scating,} digging in a garden, ^{cutting & sawing}
swimming, ^{and} the more active games
word,
which have been mentioned.

In old age the exercises should be like
~~those of infancy and childhood~~ chiefly
of a ^{moderate} ~~passive~~ nature. ^{riding in a}
Carriage, sailing, reading aloud, ^{and} ~~or talking~~
singing. The three last, by the impetus
they ^{give} impart to the blood in passing
through the lungs, invigorate the whole
System. The "Nervous" Disposition is so
common & so unjustly complained off
in old ^{people,} ~~life~~ is one of the strongest argu-
ments of their lives, and the great ^{or} ~~the~~
facility with which they are able

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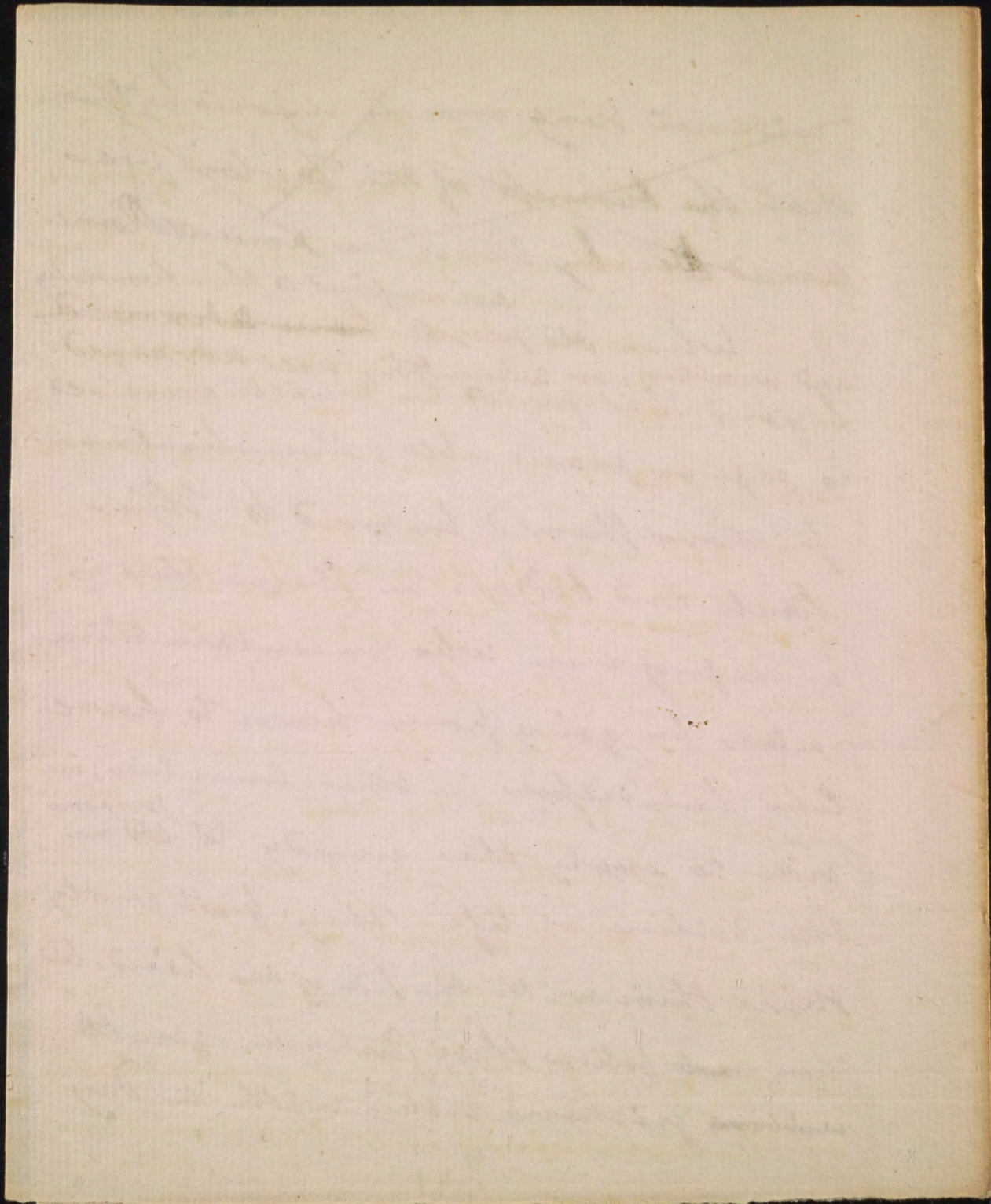
to exercise this disposition in cities, than
 in the ~~country~~, is one reason why more
 instances of longevity are more
 common in them ~~than in~~ ^{the} ~~country~~ ^{places}. "I will practice physic
 (said an old physician in England) as
 long as I live, for ~~if~~ if I retire from
 business, I shall be deserted by the
 world, and have no body to talk to,
 but while I continue to exercise my
 profession I can compel my patients
 to hear my conversation."

~~Human, ^{from the greater exigencies} require less exercise than
 - birds of their system, ^{and} require
 less exercise than even. It was be-
 - cause they have redundant employment~~

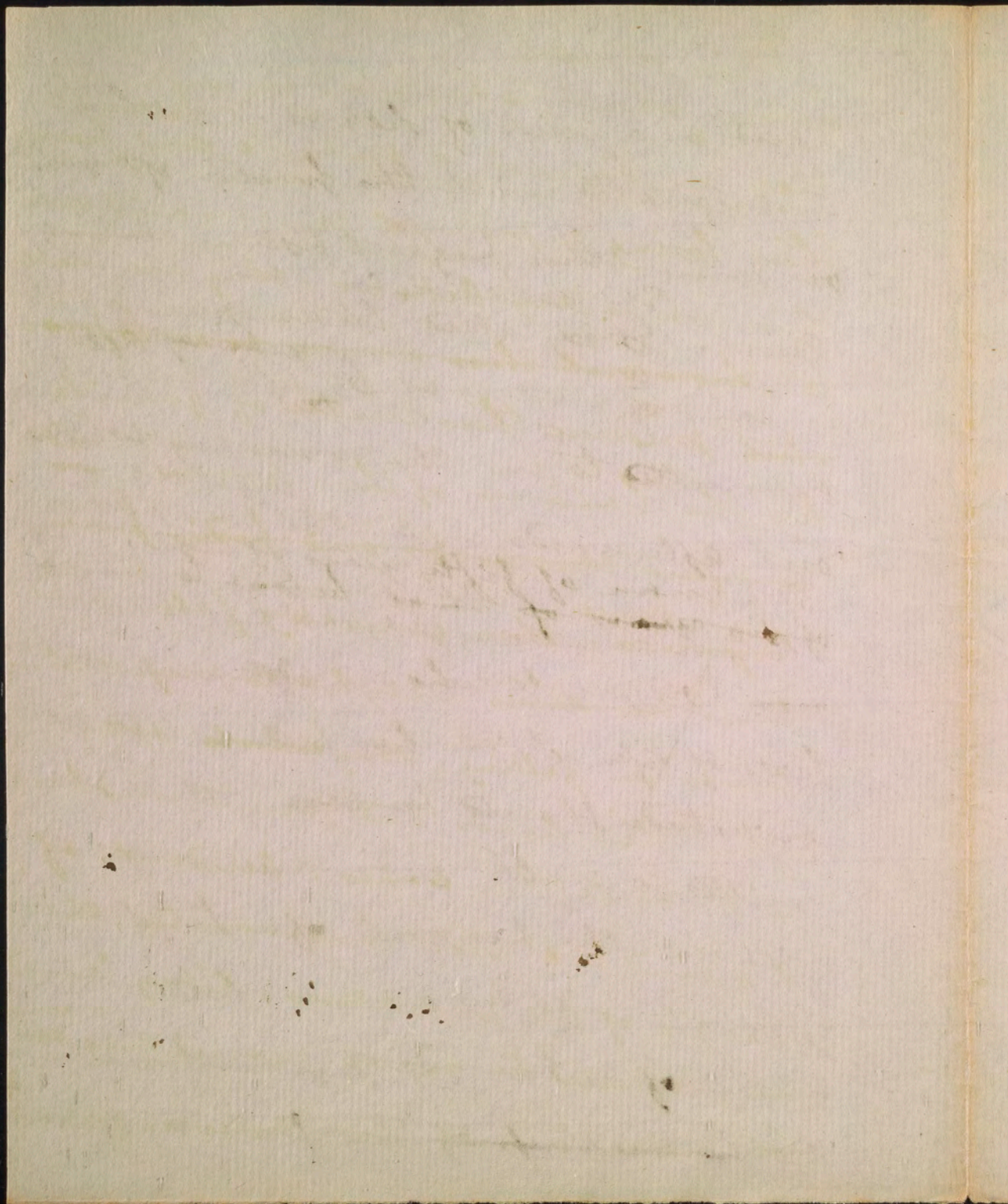


~~without being much injured by them~~
~~that the business of the Taylor was~~
~~learned by them in ancient Rome~~

are confined to this household
When old people ~~have advanced~~
and weather, or when they are advanced
beyond that period in which exercise
is safe or practicable, these kinds of
frictions should be used to their
limbs and bodies. In China there is
a class of men who maintain them-
selves by going from house to house
like hirculpers in other countries, in
order to apply this remedy to ^{persons} ~~the~~ in
the decline of life. They first gently
strike them with the side of the hand, &
then ~~not~~ follow these strokes by gentle
rubbing frictions either with a dry



hand, or a piece of silk or muslin
 impregnated with the smoke of myrrh,
 or some other fragrant & stimulating
 gum. ^{The operation is} It is called Champuing. It
 is said ^a ~~of~~ ^{man} of 65 ^{years of age} after having
 submitted to ^{it} in the morning, walks
 out afterwards with the ^{vigour &} complexion
 of a man of fifty years ^{of age}. ~~He~~
~~of 60 years of age that belong to the 50+~~
~~from the return of that state of the system~~
~~that people who are advanced to that~~
~~stage of life which has been called De-~~
~~-cripitude should be not be per-~~
~~-mitted to walk upon uneven ground~~
~~without the support of a staff, or~~
~~of what will be much better the~~
~~arm of a friend. From the return~~
~~of the weakness of that state of the~~

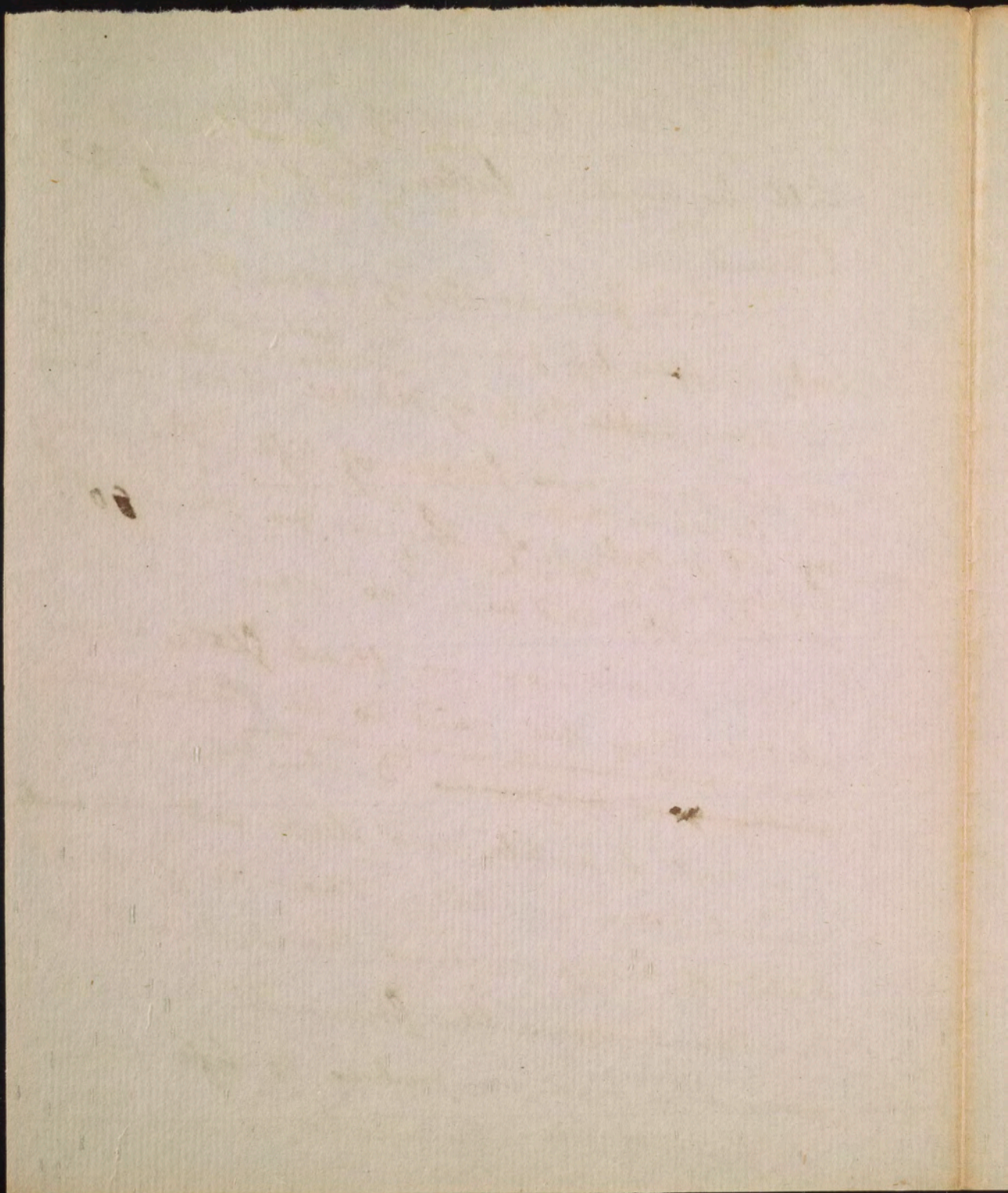


in old people
System, which takes place in infancy,
they are disposed to ^{in walking} stumble, and from
this losing a prompt command over
their voluntary Actions, they are unable
to ~~throw out their arms so as to pro-~~
~~tect~~ procure their centre of gravity
by the balance of their arms, ^{and}
~~to defend their heads and bodies from~~
^{hence} injuries, they generally fall, and
from ^{an} ~~the same~~ inability to project their
arms in falling, they ~~whole~~ often
injure their heads and sometimes break
or dislocate their bones. Accidents of
this kind are very common in the
practice of all physicians: they should
be prevented by never permitting ^{very} ~~old~~
old people to walk upon uneven ground.

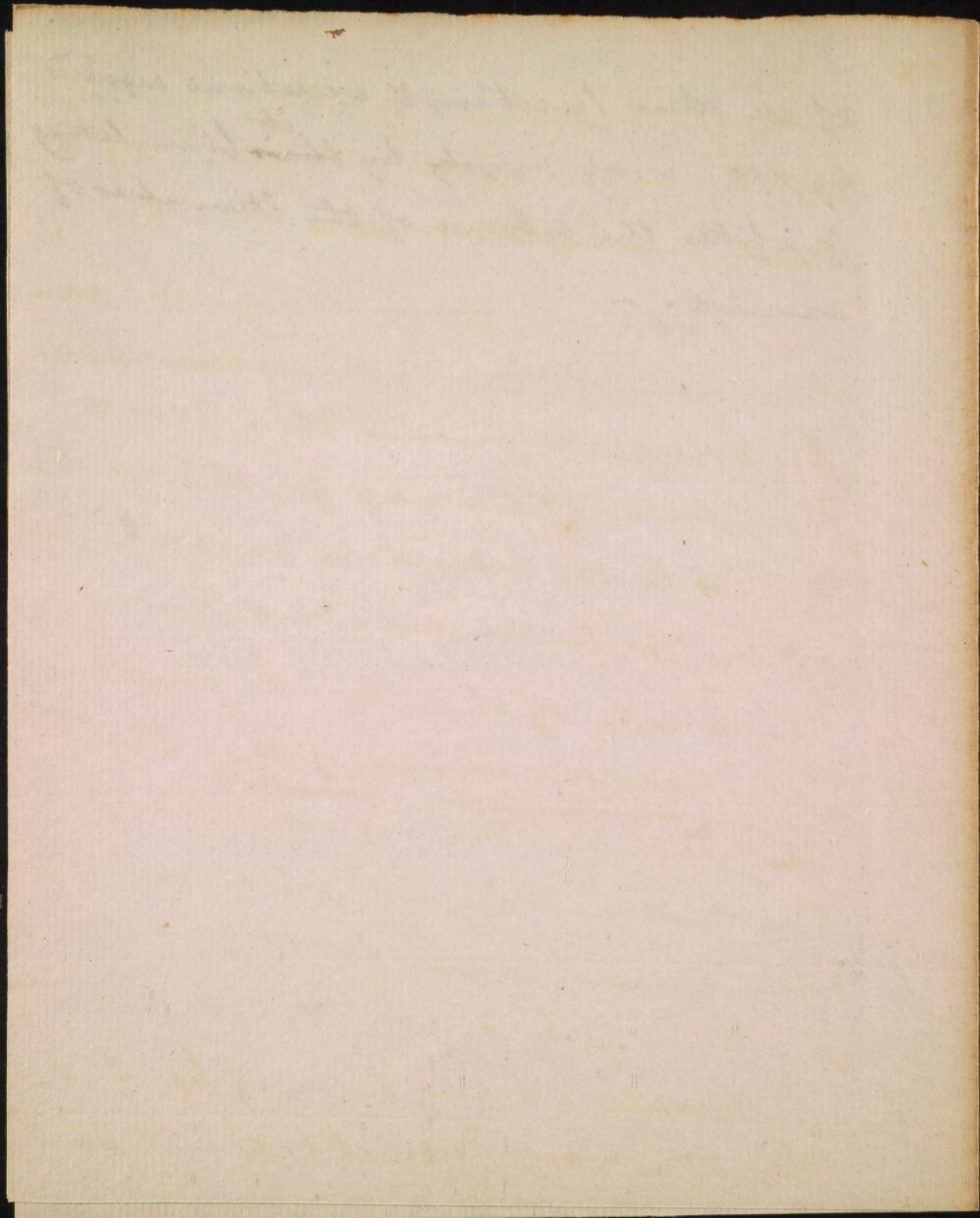
V. Many studious ^{men} who have lived to very old
have spent the ~~last years of~~ ^{their} lives in their closets
free from pain and disease. The celebrated
Mr. Bayle ~~lived~~ breathed no other
air than that of his room in
~~from year for~~ ^{But} before during
the greatest part of his life. ~~But~~

without the support of a staff, or what will be much better, the arm of a friend. —

It is a fact worthy of notice that the body suffers less from the want of exercise in the feeble state of old age than in any of the previous stages of life. ^{which has been called senility} Thousands in whom the exercises of the mind do not supply the defect of activity of the body go to their 80th to their 90th and even 100th year in an arm chair, or in that state in which they are said to be bed-ridden, ~~who are totally destitute of the vigorous~~ ~~with good appetites~~ During this time they eat heartily and sleep well. It would seem in these cases as if the habit of living rendered the system less dependant upon the stimuli which gave the first impulse to life the motions of life. Perhaps too the animosity



of all their secretions & excretions acquired
by age, may supply by ~~these~~ ^{its} stimulating
qualities the absence of the stimulus of
exercise. —



without the support of a staff or what
 will be much better the arm of a
 child, a grand child, or a friend.

Women, from the greater ~~ex-~~
 irritability of their systems, ~~the~~ require
 less exercise to preserve their health
 than men. They were for this reason
 destined to the sedentary employment
 of the Taylor in ancient Rome.

The activity of their minds supplies
 in a degree the exercise of their bodies.
 Domestic ~~and labor~~, labor, ^{Domestic}
 the walking, dancing, and riding on
 horseback and in a Carriage are the
 exercises most proper for them. They
 should never be dispensed with when
 practicable at any time of life, but
 they are most indicated about the

Age of puberty. It is at this time ^{of life}
the female Constitution is formed, &
~~from~~ ^{on} the manner in which it is
~~spent~~ ^{spent} depends the future health, or
sickliness of a woman. Let no day
pass therefore ^{between the ages of 14 and 20,} without a walk, or a ride
in the open air, and when this is
forbidden by bad weather let a double
portion of domestic labor consisting
in making beds, rubbing furniture,
and the like be performed by them.
Women derive ^{great} ~~the same~~ advantages from
exercising their lungs in ~~speech~~ ^{speaking}, and ^{reading}
singing, ~~that have just now been ascribed~~
~~to birds~~ and it for this reason pro-
-bably that they are more disposed by
nature to all of them than men. A
~~vicious woman~~ ^{is} Taciturnity & bad health
~~are~~ generally go together in a Woman.

If they are less agreeable or instructing
 in the use of ~~this~~ organs ^{and} voice ^{than}
^{more} ~~than~~ ^{they should be, the other} ~~than~~ ^{it becomes} ~~than~~ ^{to}
 inquire whether they are not made so
 by the neglect of their education, or by
 making ~~that~~ it to consist in ^{external} amu-
 sements rather than in ^{just} ~~real~~
 principles and useful knowledge. —

Studious men suffer from their sitting
 posture, and often from pressing their backs
 with their breast or bowels in writing. By
 the exercises of their minds, they abstract
~~themselves~~ nervous influence so necessary
 to the health of every part of the body
 from the trunk of the body particularly
 the stomach, and ~~the~~ from the lower
 limbs. Their bodily exercises of course

✓ in favor of walking. It was the principal
mode of exercise of a Sect of philosophers
in Greece, who obtained from it the
name of Peripateticks. It not only
equalizes the ~~to~~ excitement of all the
muscular parts of the body, but it
~~improves~~ aids the ~~various~~ ^{by others} operations
of the mind: we are taught in our
Closets, but we teach ourselves in our
~~evening~~ walks.

should be such as are calculated to
restore the equilibrium of nervous
influence to ~~the~~ every part of the body.

They should be walking, jumping, foot ball
swimming, ^{seating} ~~rowing~~, cutting & sawing wood, and riding on

horseback. ~~the~~ ^{Too much cannot be said} ~~that are proper for~~ ^{that are proper for} ~~the same exercises,~~ ^{for sedentary people} will be equally ~~of use for~~ ^{of use for}
men who pursue sedentary occupations of
all kinds, ^{in which the} stomach, bowels &

lower limbs are in a passive state. Inex-

~~ercise~~ ^{exercising} ~~these~~ ^{exercising these} parts of the body, ~~which~~

~~have suffered~~ ^{those} ~~have been passive,~~ care should

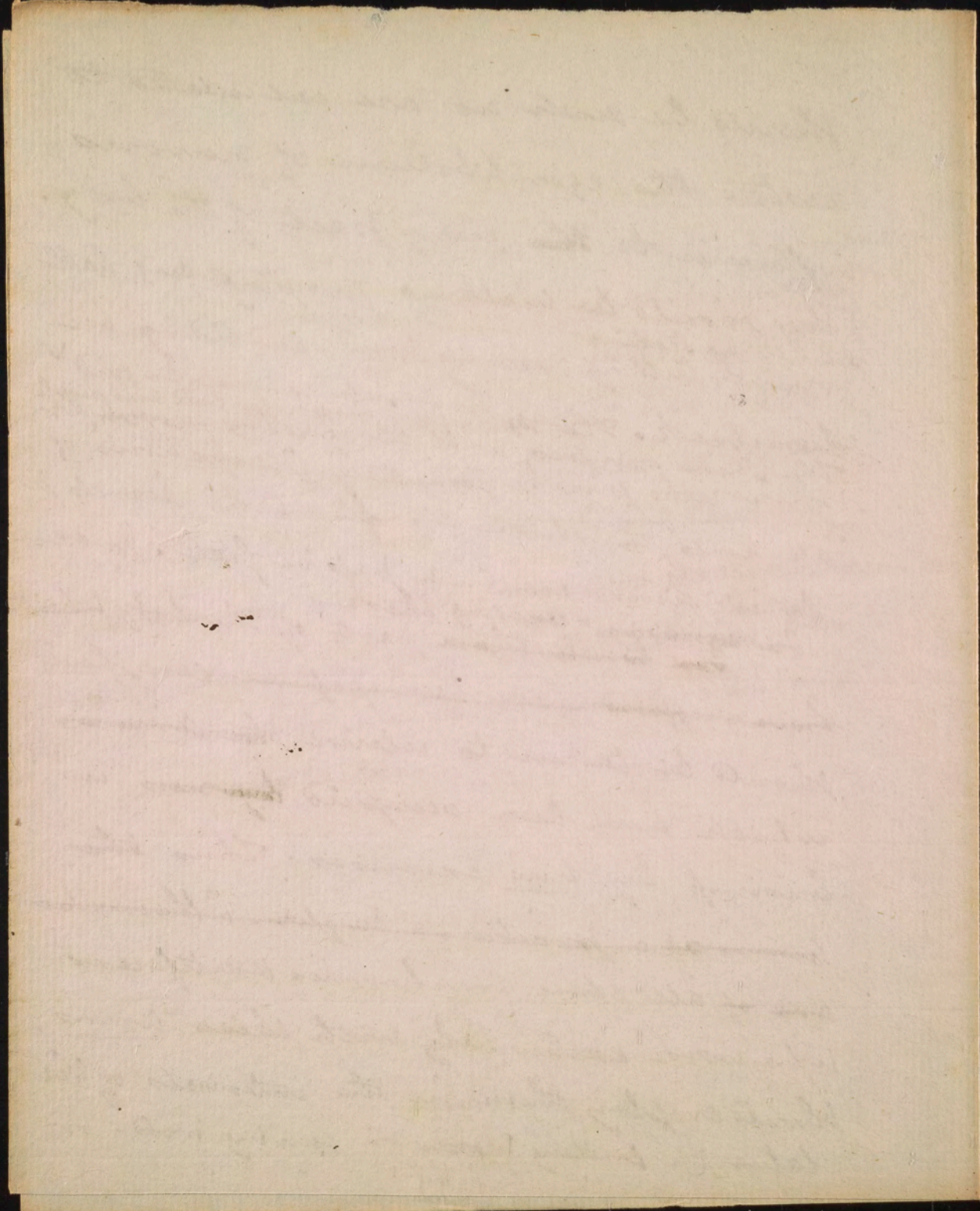
be taken to relieve ~~the arms~~

which have been occupied ~~by arms~~ in
business, by new exercises. Thus ~~the~~

~~arms of a printer a taylor a shoemaker~~

~~and of all those mechanics & artificers~~

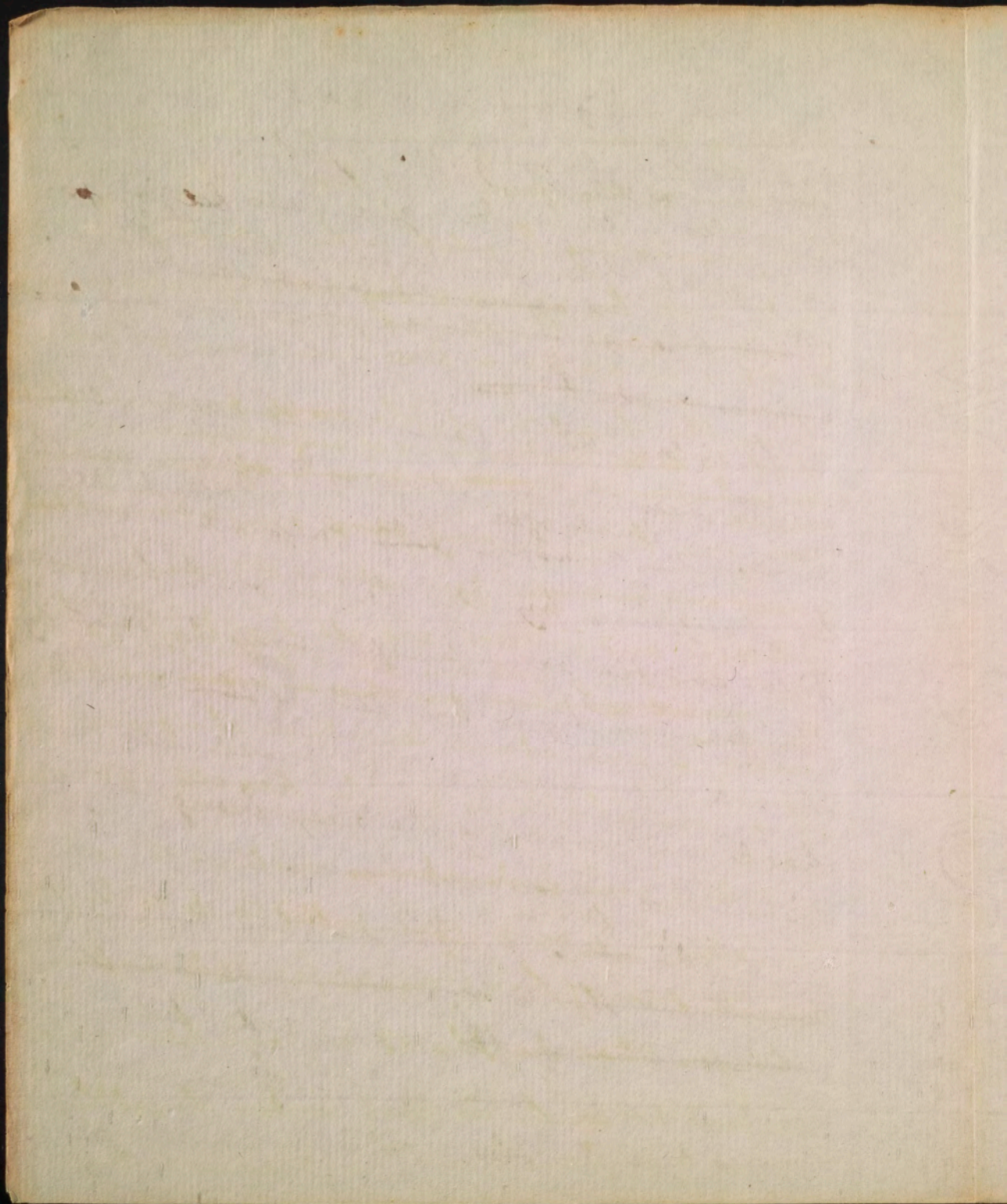
who work exclusively with their arms,
should employ them in the intervals of their
labor in cutting ~~wood~~ or sawing wood - or



in rowing, Digging in a Garden, or in play-
 =ing at Quoits or Golf. By these means
 all the ^{of this arms} ~~arms~~ will be brought into ~~action~~ ^{each off}
 and equal strength be imparted to them.
~~This change in the employments of Arti-~~
~~ficers of all kind~~

Similar Advantages would attend a change
 in the exercises or labors of Artificers of all
 kind. The ^{limbs of the} ~~limbs~~ ^{the} ~~smith~~ ^{and} Carpenter would
 be strengthened by the labors of the hardest
 field, and the same benefits would be ~~enjoyed~~ ^{enjoyed} by
 the farmer from his taking ~~the~~ a row &
 then a harrower and a trowel into his
 hands and repairing the decay brought by time
 upon his house and barn. —

~~The~~ ^{specific kinds of} ~~all the~~ exercises that ^{are proper} ~~have been~~
~~mentioned~~ should be accommodated to the
 predisposition of ^{for} ~~the~~ persons who labour
 under peculiar predisposition to certain dis-
 =eases shall be ~~the~~ noted in another place.



Having recommended riding on horseback
as one of the first and best modes of exercise
for promoting health, the reader I hope
will not be offended by at my helijoining
to this Chapter a few directions for preserv-

-ing the health of the ~~vital~~ animal that
that is to the instrument of impetus for this
to which we owe so much of our ~~vital~~
exercise.

We owe him many ~~other~~ obligations. Plea-
~~sure and interest~~ Agriculture & Commerce,

pleasure and interest are all his debtors, but
I found my petition for a ^{in this work} ~~petition~~ for the
directions ~~made~~ ^{made} I am about to deliver chiefly upon
his Contributions to the health of man.

1 A horse ~~feeds~~ always inclines to eat
constantly. He is compelled to do so by the
small size of his stomach. It is necessary
therefore that he should always have access
to food when he is not under the saddle,
nor in harness. The reason why

horses in this country lose their flesh after
~~more or less fall away~~ after the first of
~~June in this middle states country is because they~~
~~the heat of the sun drives them to seek~~
~~the shade, and flies prevent them feeding con-~~
 -stantly by the heat of the sun driving
 them to seek the shade and by the annoy-
 -ance of flies. Both these causes operate
 in the field, and the latter in a stable with
 open windows. To obviate both, a horse
 should be kept in a dark stable in the
 day time, and let out to pasture only in
 the night. The heat of a dark stable is
 less hurtful to ^{him} than the biting of flies,
 and the night protects him ~~not only~~ from
 both flies and the heat of the sun. As a
 proof of the correctness of this direction it
 has been remarked that a horse acquires
 more flesh and fat in those weeks in the

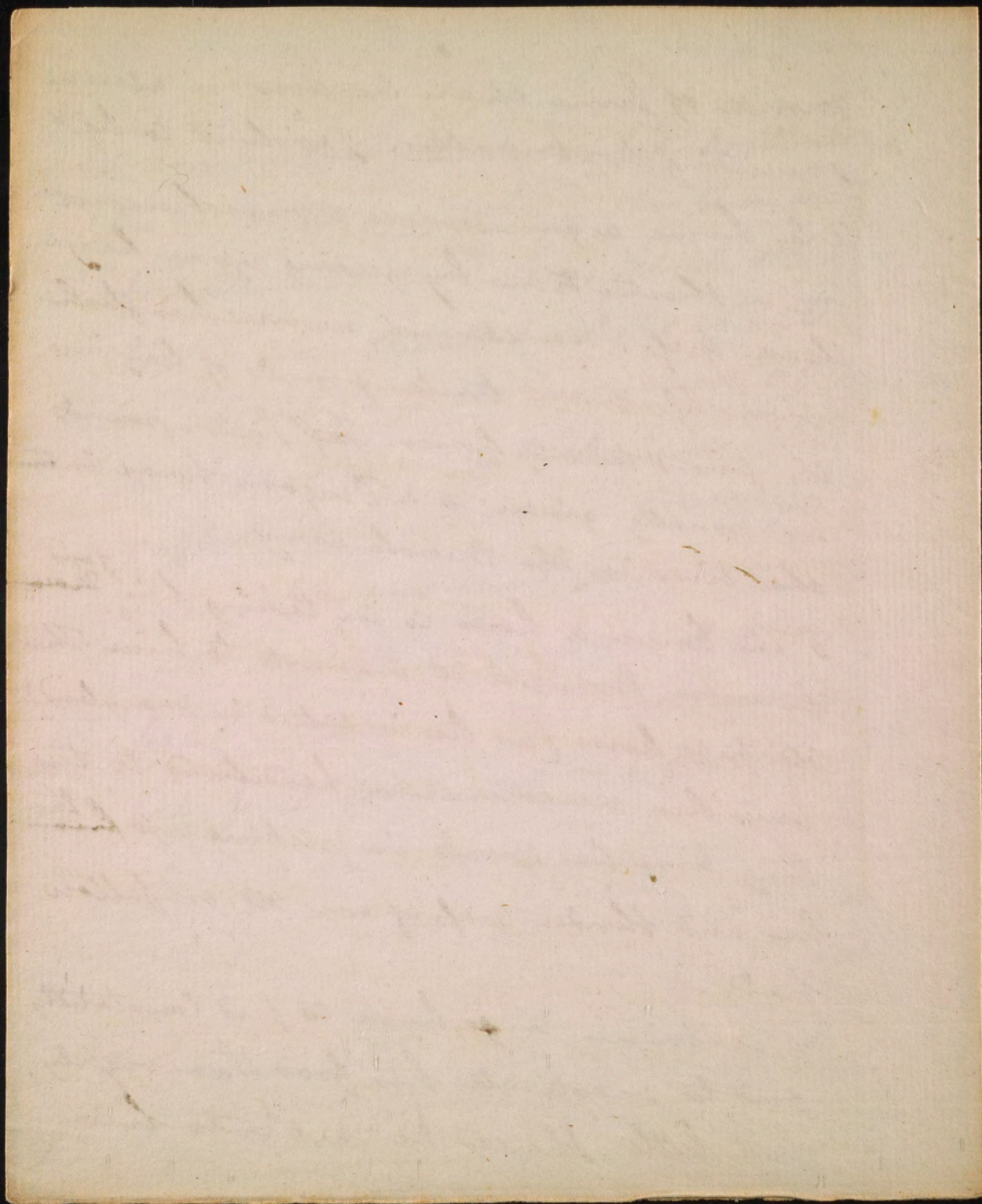
I remembered, that the stable should
be darkened only when the flies are
troublesome to ^a horses. At all other
times they ~~should be~~ light should
be let into the stable by means of
a glass window. ~~which~~ from the
neglect of this direction many
horses become blind in consequence
of the violent impression of the
light upon their eyes when they
are first taken out of a stable.

months of June than he does in all the
succeeding hot months. I wish it to be

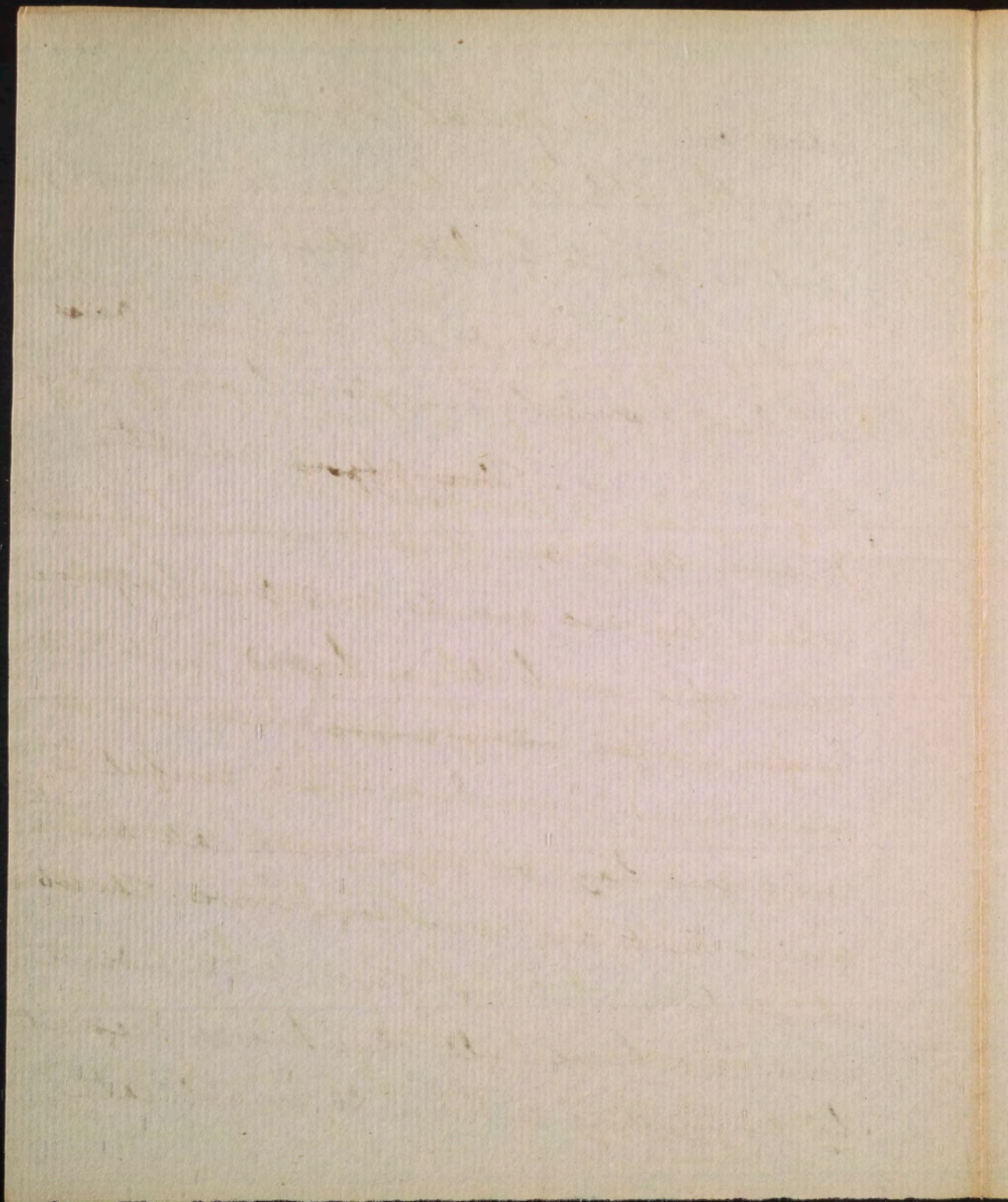
2 A horse acquires more nourishment
in a shorter time by feeding upon hay
than grass. He cannot preserve his flesh
upon less than twelve pounds of hay in
the four & twenty hours. ~~But~~ Sixteen pounds
are usually given to a Dragoon horse in the
that time in the British Army.

3 The longer a horse is in taking his ^{food} ~~care~~
the more strength it imparts to him. The
old field horse (as he is called in Maryland)
owes his uncommon hardihood to the
long time he spends in picking up ^{the} ~~his~~
low and slender grass of an old, or fallow
field.

4 To induce a horse to feed constantly,
and to masticate his food thoroughly,
but little should be put into his



rack or manger at a time
 500 Hay is better than new, and timothy
 grass is said to be better than Clover.
 6 Indian Corn affords the most, and Oats
 the least nourishment to a horse of any
 of the grains. ~~They~~ ^{They} afford all the
 grains afford one third more nourishment
 when they are ground, and one half more
 when they are boiled, or baked. In Holland
 horses are fed ~~with coarse~~ with grain
 made into a coarse bread. It is useful to
 mix cut hay, or straw with all the ^{small}
 grains that are given to a horse. The cob
 should be ground, and given with Indian
 Corn to a horse. All these substances act
 by compelling a horse to masticate



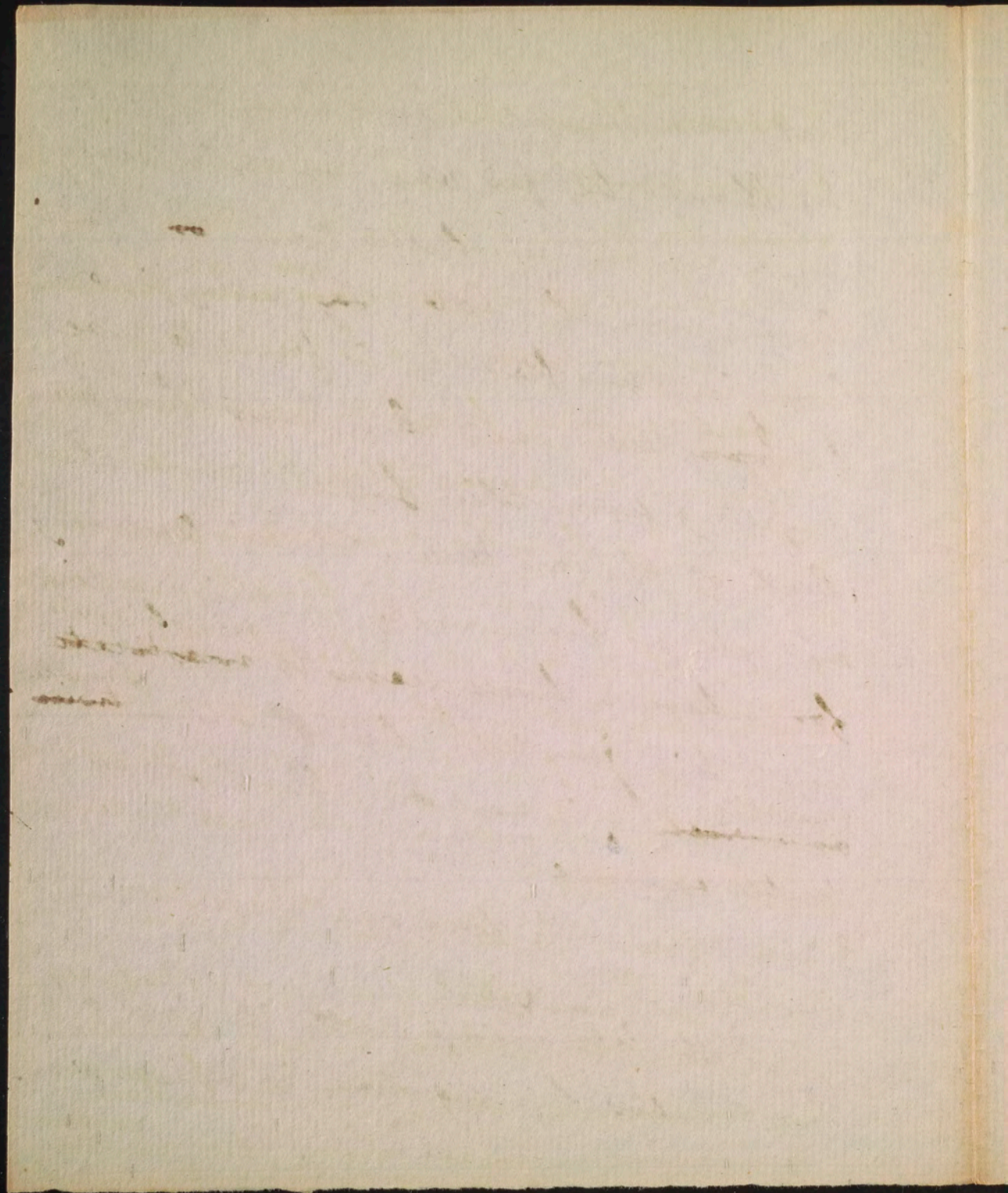
his food more completely, and they further
render by the stimulus of Distention in
the Stomach his food necessary to support
~~the~~ his strength and activity. Oats from
being less stimulating than other grains
should be preferred for a horse when he tra-
vels.

I mentioned formerly that
if a horse when he feeds upon hay or
grain seldom makes use of his fore
teeth as he does when he feeds upon
grass; ^{for which reason} ~~because~~ his foreteeth become so
elongated as to prevent ~~their~~ ^{his} jaws teeth
coming in contact, by which means ^{he} ~~they~~
~~is~~ ^{is} unable to grind ~~their~~ ^{his} food, and swallow
it in an undivided state, and hence ^{he} ~~they~~
consumes poor and weak with the greatest
quantity of Aliment that can be given
to ~~them~~ ^{him}. To prevent this, where it is

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not convenient to send him to pasture,
 he should be fed once or twice every
 week upon unshelled corn; ~~or~~ that is
 corn upon the cob. ^{In} feeding upon
 corn in this state he is forced to use
 his ^{fore} ~~jaw~~ teeth, and thus keeps them from
 projecting from their sockets above the
 level of the jaw teeth. There is economy
 as well as humanity in this practice,
 for where a horse ceases to ^{grind his food} ~~maintain~~
 with his jaw teeth, he consumes ^{a double} ~~twice~~
^{quantity} ~~amount~~ of it and is thus kept at a
 double expense.

- 8 The oftner the food of a horse is changed
 the better. ^{now & then}
 9 a little salt mixed with the food of a
 horse helps his digestion, & obviates worms.



10 ~~a horse~~ ^{the} should drink twice a day in winter and three times a day in summer while ~~he~~ when kept in a stable.

11 He should stand upon ~~a hard floor~~ ^{an even} floor, or nearly so in a stable. A Dubivity when descending from the manger, although it favours the descent of the Urine fatigues a horse by throwing an undue proportion of his weight upon his hind legs, which disposes them to swell, also to a Disease known by the ~~name~~ ^{name} of the Scratches. The Urine should be made to pass through a hole into the ground under his belly.

12 A warm stable in winter is favourable to the health and flesh of a horse. It saves food, for in a cold stable he eats to keep himself warm. The German ^{farmers} in Pennsylvania to whom this ^{fact is} ~~fact is~~

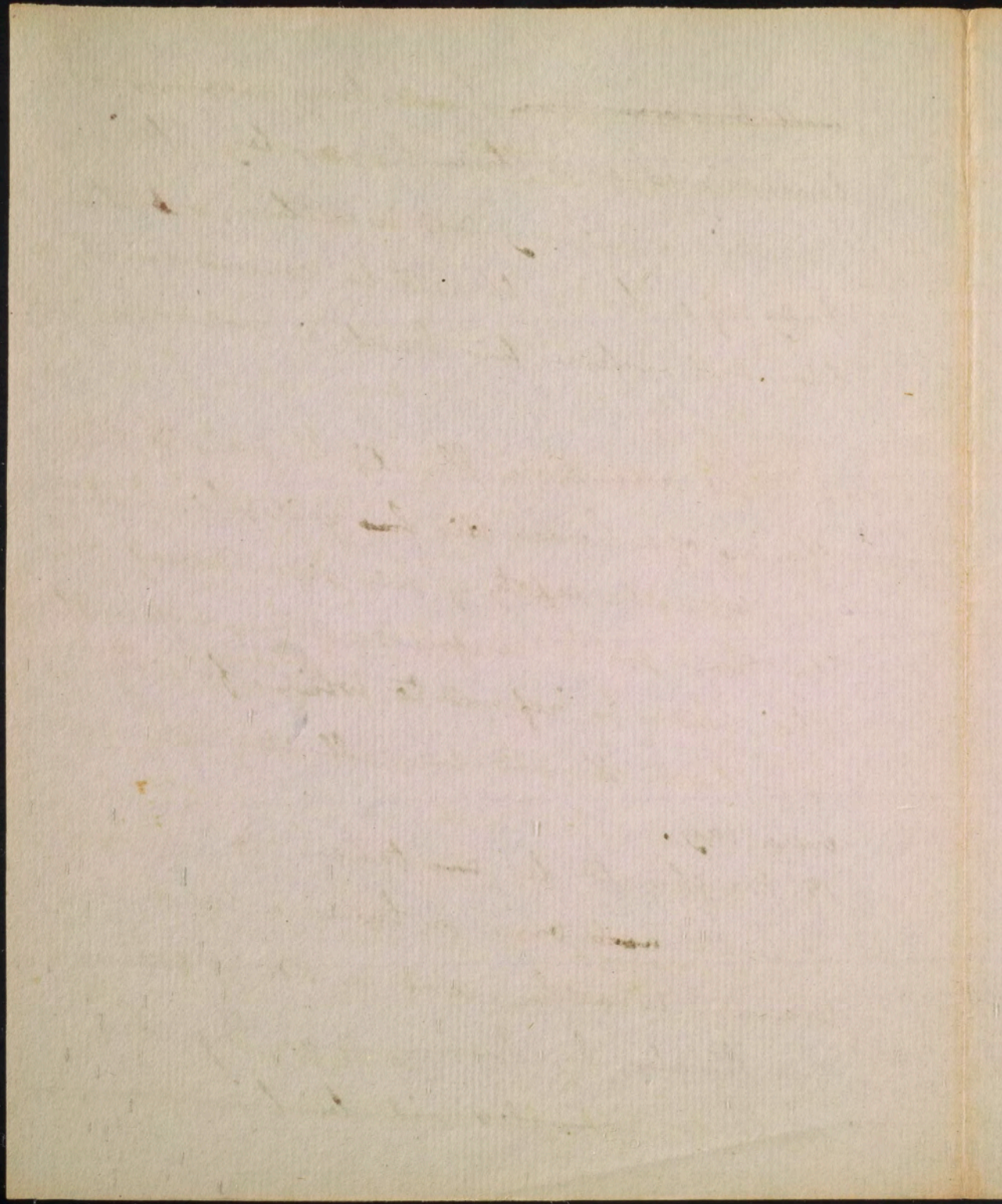
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~~well known~~ ^{benefitted} ~~him~~ have long ~~profited~~ ^{benefitted} both themselves and their horses by this practice. In very cold weather, ~~and~~ the body of a horse should be covered with a blanket, where his stable is not sufficiently warm. —

13 Great attention should be paid to the shaving of a horse. His ~~low~~ gait & his health, and often the safety of his rider depend upon it. For some useful directions upon this the reader is referred to White's farriery.

14 A horse should be well cleaned & curried every day.

15 He should be ~~can~~ taken to a stream of water ~~and~~ once or twice a week in warm weather, and made to exercise his limbs by swimming. By this means ~~muscles~~ will be brought into



Actions which are ~~old~~ ^{gait,} are nearly passive
in his ordinary, and new actions will be
given to his muscles and his health &
strength thereby be improved. The swimming
will further serve to wash his skin.

16 He should used tenderly when he is shed-
ding his coat, being weaker at that time
than at any other season of the year.

17 In performing a short ^{rapid} journey of thirty
or forty miles in a day, a horse should
eat but little grain. In ^{which are performed} protracted journeys,
^{slowly,} he should eat grain moderately during the
day, and plentifully at night. This will
be the more necessary from his not having
time ~~enough~~ ^{enough} to eat as much hay or
grass in the day time as will be suffici-
-ent to fill up his blood vessels, & keep
up his flesh.

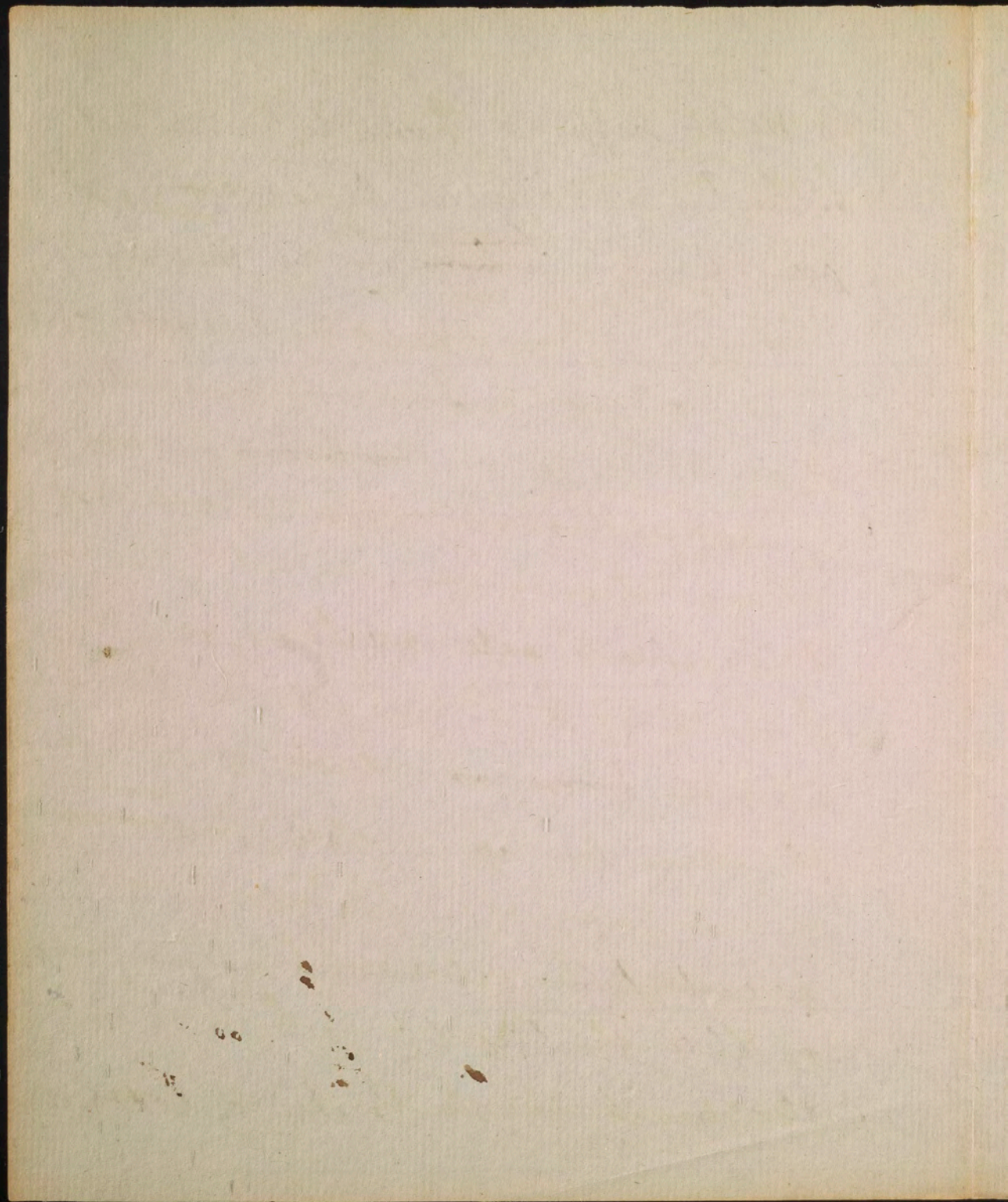
10

18 never suffer a horse to drink well
or spring water when he is warm. It
often founders ~~a horse~~ ^{begets horse}, or in other words,
produces a rheumatism in his feet.

Running water in summer, and when
cold in winter (from ~~the horse's~~ ^{his} feet coming
in contact with it before he drinks)
 seldom injures him.

19 He should well rubbed at every stage
in travelling. It removes fatigue by rest-
=ting the ~~fibres~~ ^{and} muscles of his limbs.

20 Always take off the saddle or harness
from a horse when you stop to feed him.
- It cools him and makes his rest more
complete. Washing his back ^{and breast} with cold
water, or throwing a bucket of cold water



upon ^{them} ~~it~~, prevents ^{their} ~~it~~ being galled by the
saddle ^{on} ~~or~~ harness. If he wet with sweat,
and not much fatigued, the ^{cold} ~~hot~~ water
may be thrown over his whole body. His
feet should be often washed with cold water
in hot weather both in travelling & in the
stable.

21 After ^{hard} ~~n~~ riding, or driving a horse do not
permit him to rest suddenly. By walking
him for a quarter an hour you prevent
stiffness and founder.

22 Never permit a horse to stand in
the open air after night if he ^{look} ~~perceives~~
much fatigued. The locked jaw is
sometimes brought on by the action
of the night air upon him.

23 Always ride slowly for two ~~and~~ or

My dear friend
I have just received your letter of the 10th inst. and am
glad to hear from you. I am well and hope this finds you
the same. I have been thinking much of late of the
future of our country and the state of our Union. I
feel that we are in a critical position and that the
people are called upon to exercise their wisdom and
courage. I hope that you will be able to do so.
I am, dear friend, very truly yours,
Wm. Lloyd Garrison

three miles after you have a stage, also
 up and down a hill. ^{In Scotland they} ~~The Scotch people~~
 express the latter part of this Direction
 in Verse: 'up hill & down hill gang slow.

" Feed well & rub sars

" and ~~and~~ on a plain never spare.

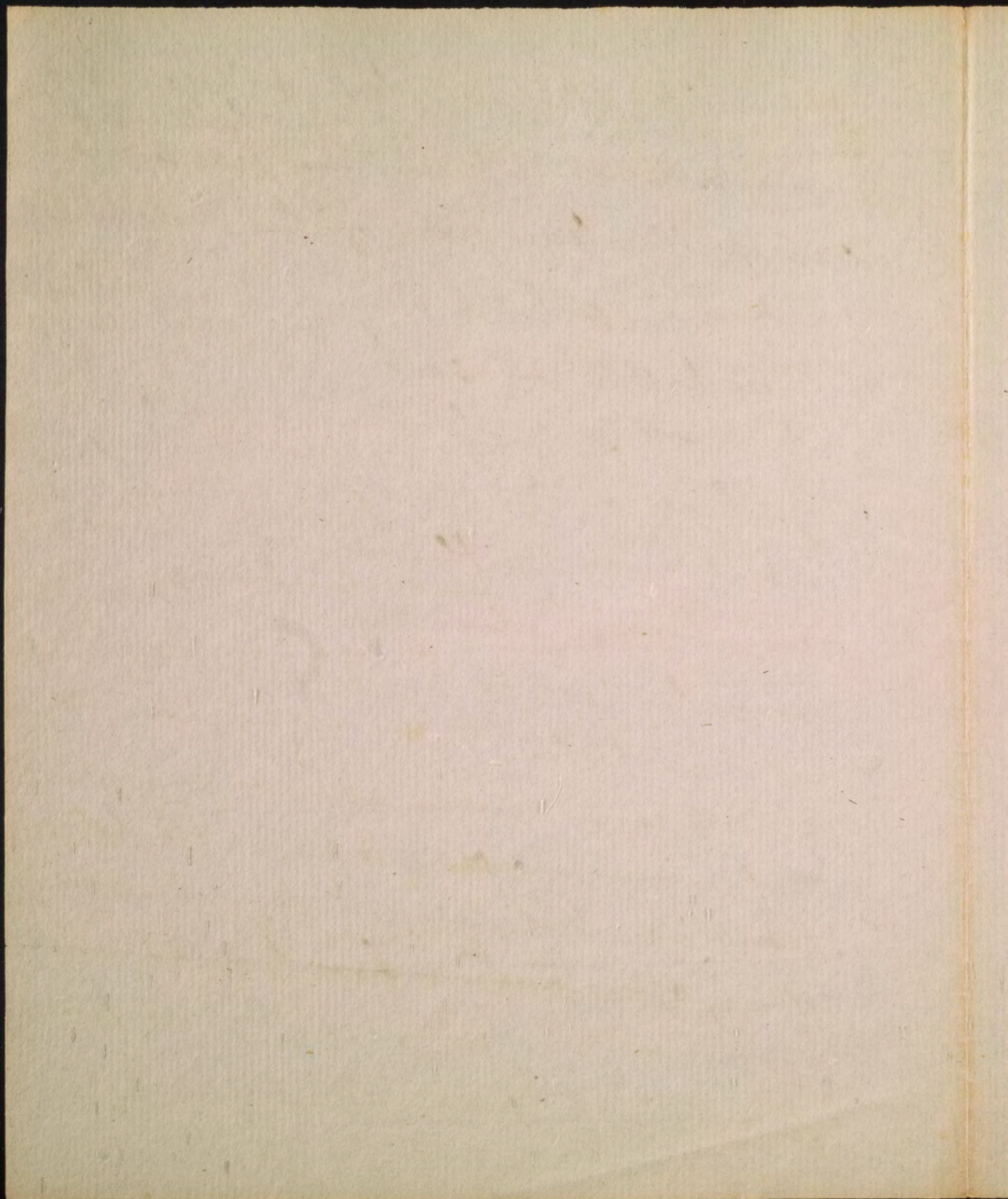
24 Throw as much of your weight as

possible ^{in riding} near the shoulders of a horse.

Heavy baggage placed over his kidneys is
 always hurtful to him, especially if his
 gait be a trot.

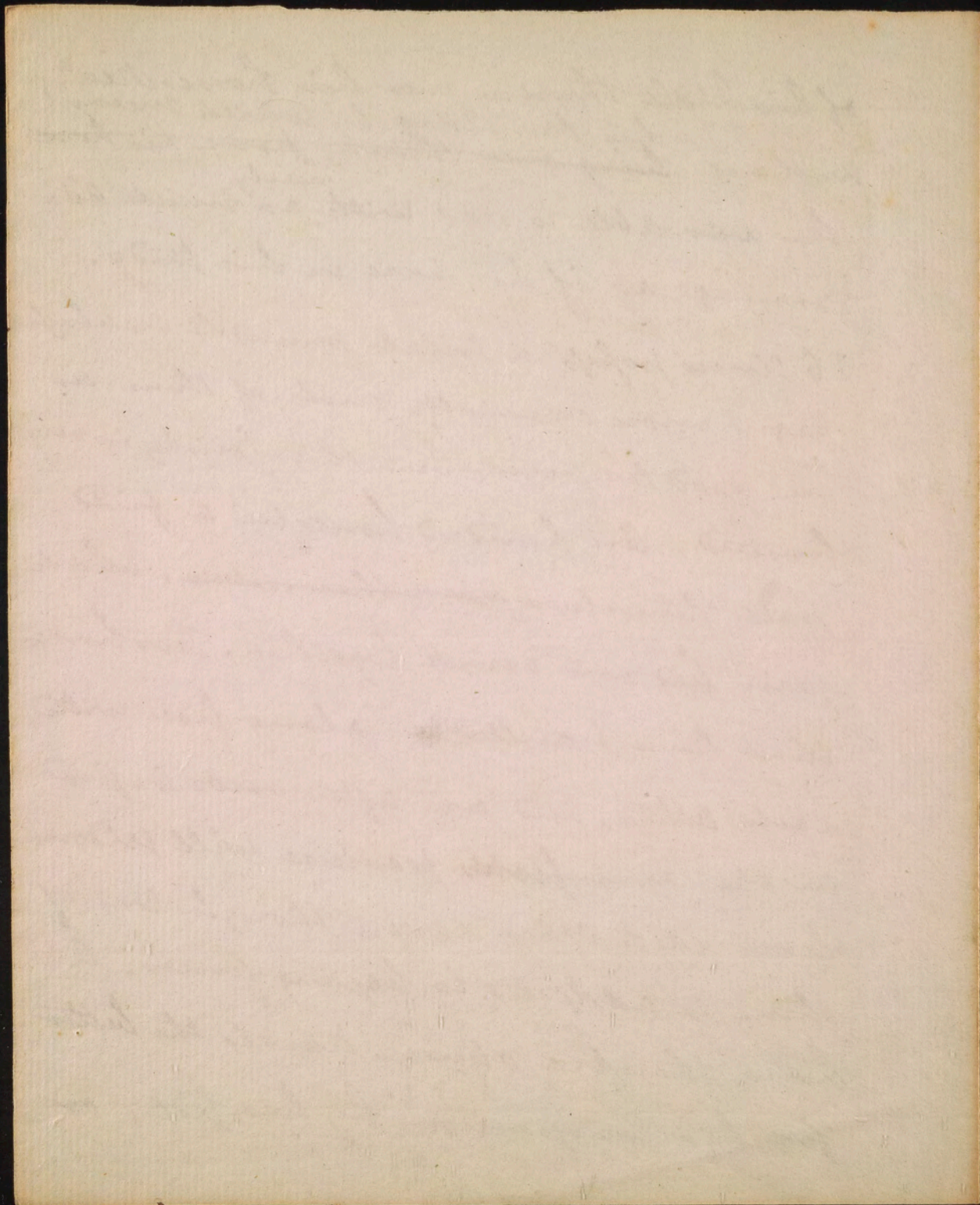
25 It is common to advise riding with
 a tight rein, in order to prevent a horse's
 stumbling, but ^{some} late writers upon farriery
 say it ^{is} often ~~causes him to stumble.~~ the ^{the} cause of it.

The famous Mr John Wesley rode many
 thousand miles every year with the reins



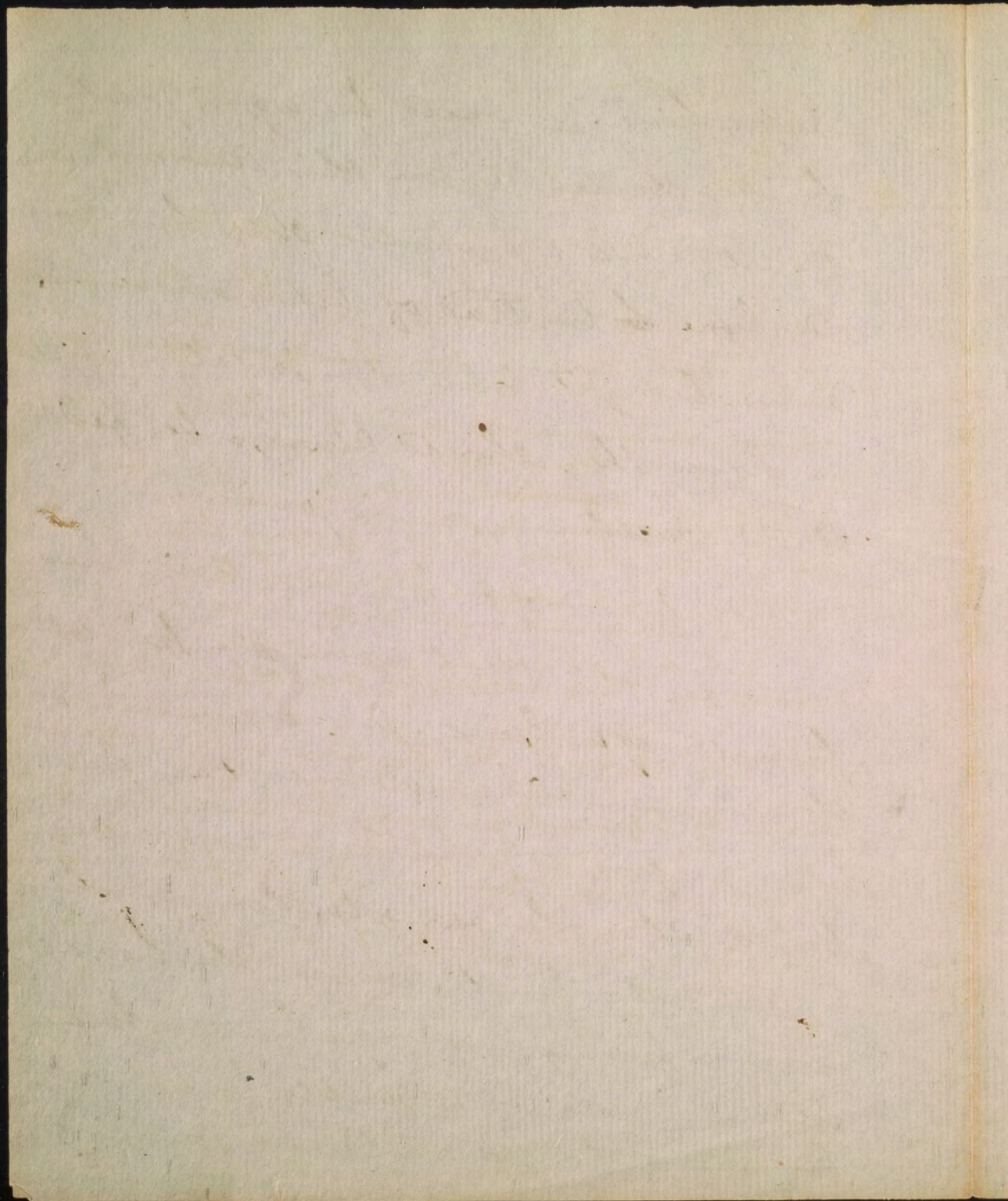
of his bridle thrown over his horses neck,
without ~~being once thrown from his horse~~ ^{his stumbling by which means,}
he was able to read with ^{nearly} as much ad-
-vantage as if he were in his study.

26 Horses possess a social principle in a high
degree more especially such of them as
are good tempered, but their society is very
limited. An hundred horses in a field
pair themselves ~~pair themselves~~, which
pair feed and drink together. Two horses
that have travelled ~~along~~ along side with
each other, and are afterwards confined
in the same ~~stable~~ pasture will seldom
leave each other, even though one of
them is addicted to hopping fences. A
horse therefore always travels the better
for his companion by his side, or



before him. It would be a good practice
for^a Gentleman upon this Account, who
travels with a servant to oblige him to
ride before ~~to~~ instead of behind him. To
derive benefit from this social principle
in horses they should always be fed &
stabled together upon a journey.

27 The sound of a human voice has
an agreeable effect upon the spirit &
strength of a horse. An experienced
blowman once told me, that his
horses performed with twice as much
spirit when he sang to them, as when
he did not. In this respect the horse is
upon a footing with the human species.
Soldiers march with double spirit with
the noise of the fife and drum sounding



in this case.

28 If a horse flag, near the close of a journey, ardent spirits or porter ^{mixed with his food,} will reexcite his strength. They should be given at no other time, for ^{they produce only} ~~their good effects are~~ ~~never permanent, and a short, and~~ transient ^{stimulus} ~~excitation~~, barely sufficient to carry ^{him} a horse to the end of his journey. By a careful attention to ~~some a neglect of these directions~~ which horses in this Country are often worn out or cripples at thirteen or fourteen years of Age. They may be kept alive & fit for service, for twenty or five and twenty years, much to our benefit & the credit of humanity.

in this case

of the same day, I received from
your company, without further delay,
the amount of \$100.00, which I
have now deposited in the bank.
I am very much obliged to you
for the same, and I hope it will
be of some service to you.
I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]
[Address]

of Sleep

Among the many paradoxes in Science with
 which modern times have teemed, few have
 been more absurd than that portion of the
 belief held by the late majority of Doctors
 that Sleep ~~was~~ ^{has taken pains to prove} a Disease, and that philoso-
 -phy ~~would~~ ^{will} one day find a remedy for it.
 In the present Constitution of our bodies
 that day can never arrive. ~~Admitted~~ ^{Did not}
~~admit it to be a disease, we must~~ ^{admit} that he
 said it was a remedy for disease, he would
 have been more correct. ~~It~~ Happily for
 us, it removes light indispositions by equa-
 -lizing the excitement of the system - it
~~restores~~ ^{removes} that substance or quality in the body
 upon which Stimuli act in the production
 of life - ~~it does it restores~~ ^{it dissolves these} ^{dangerous}
 Apparitions of ideas, which in a ~~when the~~

in a house if not interrupted by ~~sleep~~ ^{by it} would
be under the influence of a durable passion
would ~~not~~ ^{be} in a hundred instances
produce derangement, and ^{lastly it} restores the
understanding and moral faculty to their
elevated & preminent seats in the mind &
thus prevents both disease and vice. "Without
sleep and hope man (says Mr Kant)
would be the most miserable creature
upon the face of the earth." ~~Shakespeare~~
~~Amount of sleep accords more perfectly with~~
this amount of sleep ^{avoids with the} ~~is expressed in most~~
history of it given by the great philosopher
as well as poet of nature, ~~Shakespeare~~.

"Sleep - knits up the ravell'd sleeve of care.

———— Sore labors bath,

"Balm of hurt minds, great Nature's
second course.

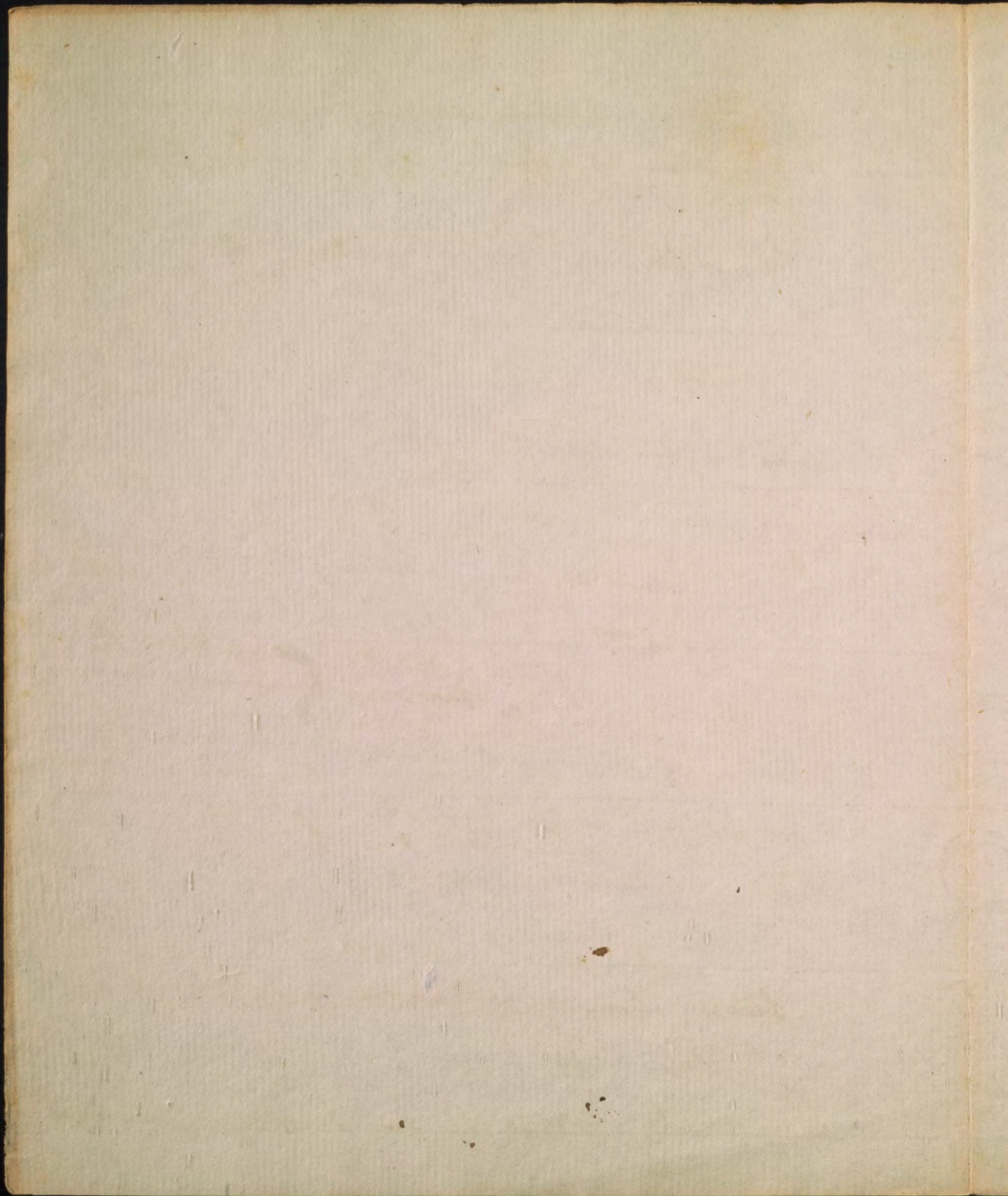
"Chief nourisher, in life's feast. —"
Well therefore has Mr Kant said "without sleep
& hope man would be the most miserable

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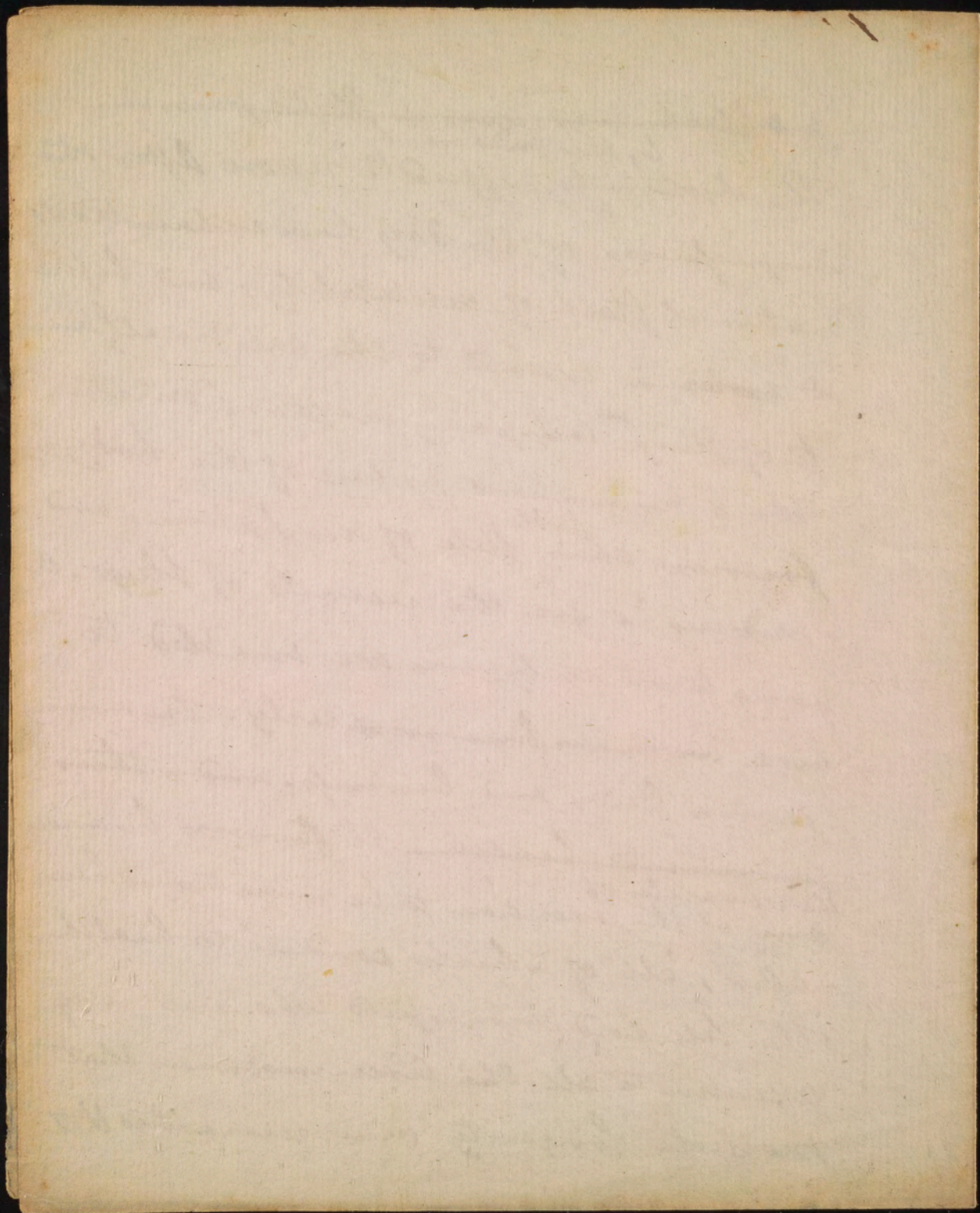
creature upon the face of the earth."
 I shall now deliver some general rules
 upon this subject.

1 Sleep should never exceed ~~of~~ ⁸ or eight
 hours in the twenty four. Persons in health
 never require more, and many people
 who enjoy good health with less. The
 celebrated ^{John} Wesley slept but six hours
 in the twenty four during the greatest
 part of ^{his} ~~his~~ active life which lasted ^{until he} ~~till~~
^{of age.} History records the
^{was} nearly 86 years, ~~most studious men~~
 names of many studious men who have
 lived long and in health upon men less
 sleep than the the degrees of it which have
 been mentioned.

2 ~~Sleep should be taken~~ Great Advantages
 to health will arise from going to bed at
 an early hour. The system about



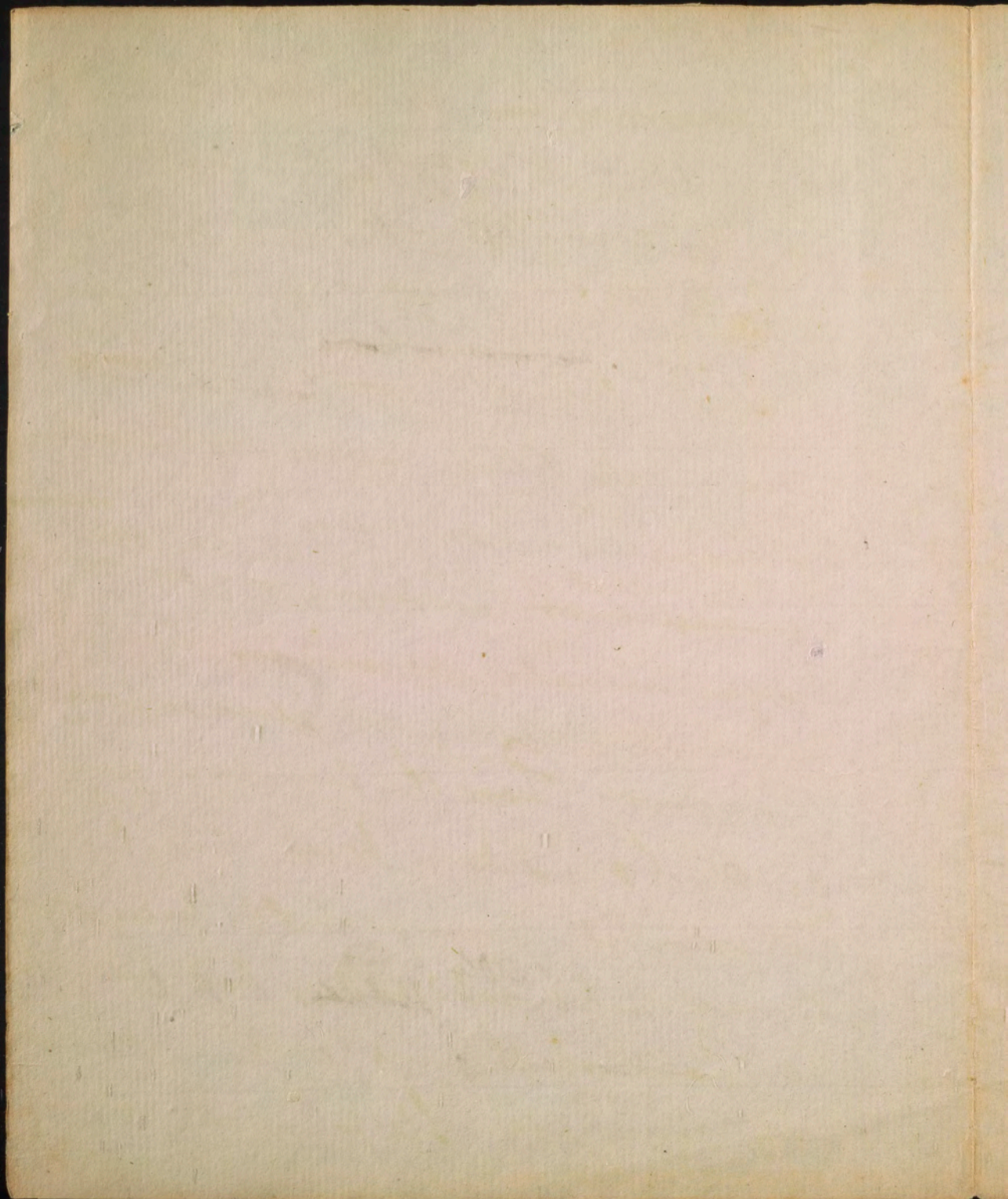
~~I collect and across a flight pass~~
by this means
The system is suffered to repose after the
impressions of the day have exhausted its
natural stock of excitability, and before
it ~~is~~ is exposed to the artificial stimulus
of study, ^{or} company or strong drink.
In a recumbent posture of the body
favours this ^{public} state of the system, and
prepares it for the recruits of sleep. By
going to bed early, we are enabled to
rise ~~with the hour~~ ^{early}. The morning
favours study and business, and ~~is thus~~
~~conducive to health~~ It favours likewise
the regularity of
~~one~~ of the exertions to be mentioned here.
- after, all of which conduce to health.
The late Lord Mansfield who was very
attentive to all the circumstances that
promote longevity, once remarked that



he had never known a long lived person who was not an early riser. —

An advantage will be derived from going to bed and rising at the same hours. The system ^{conforms} ~~conforms to~~ ^{habit} to them, by which means ~~they both become~~ ^{sleeping and waking} take place in an easy and natural manner.

3 ~~The~~ In the savage state sleep is safe & agreeable with the head in a horizontal line with the body, but civilized man ~~requires from~~ ^{requires} that his head should be somewhat elevated above the shoulders. A pillow serves this purpose, and when so necessary does it become from habit that a ^{saddle, a log,} ~~saddle~~, a pile of hay, ~~etc~~ and even a stone are sometimes resorted to to supply its place.

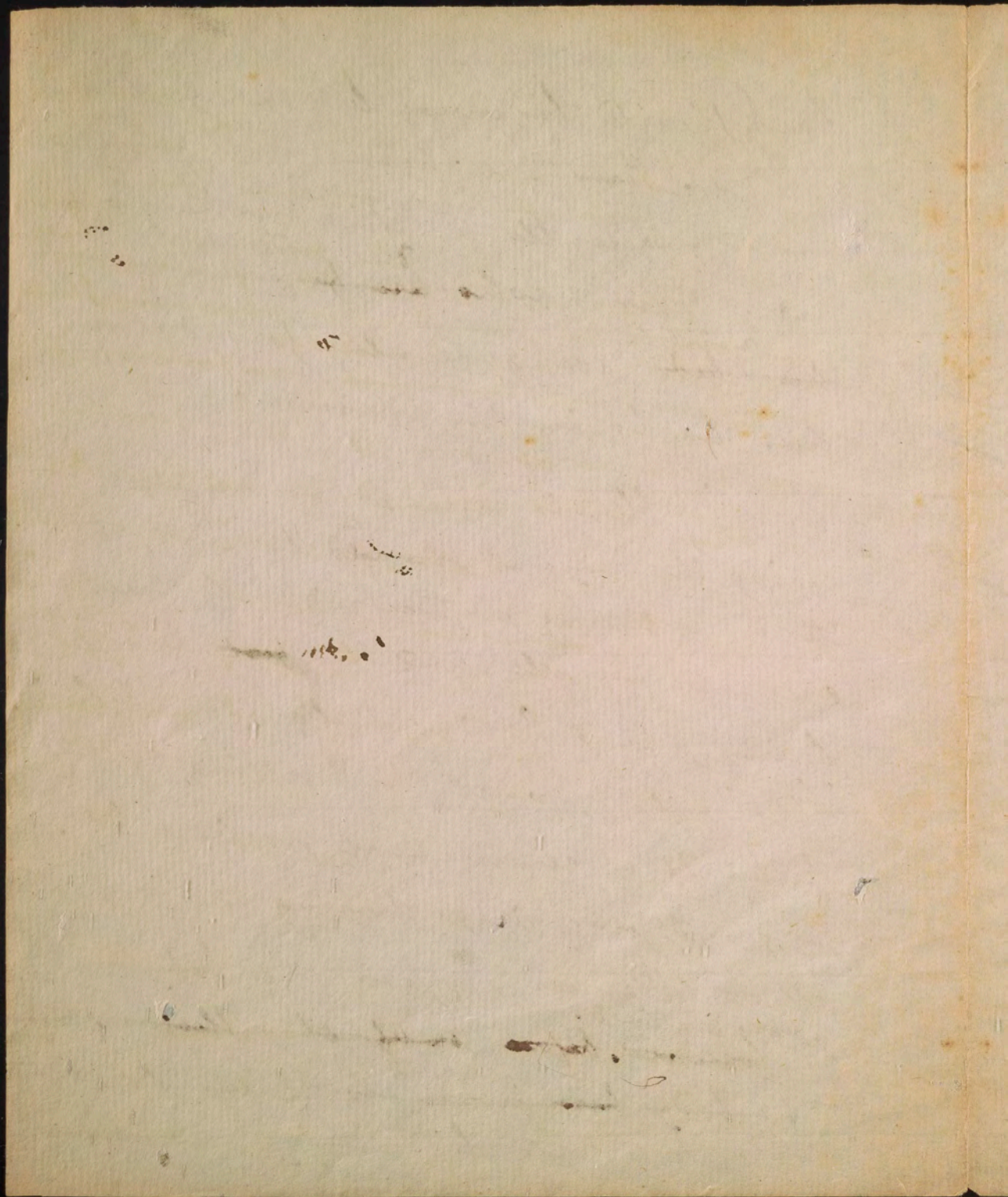


The ~~limbs~~ ^{limbs} should be moder-
ately bent in sleep, and a habit of
sleeping ^{constantly} upon the same side should be
carefully avoided. It will be useful
to sleep alternately ~~on~~ upon ^{each} ~~both~~
sides every other night, & still better
to ^{upon each side} ~~change the side~~ every night. ~~From~~
~~the neglect of this practice has often~~
~~the neglect of the effects of a contrary~~
~~practice have appeared in~~ been
attended with the most serious con-
sequences. ^{During} ~~For~~ the last seven years
of my life, I have met with ^{but} one
case of palsy in which the patients
did not acknowledge they had been in
the habit of sleeping only upon the
the same side. I sleep upon the

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back should likewise be carefully avoided. ~~From~~ The night more attacks most frequently in this posture of the body. Persons who ^{die suddenly in the} ~~are found~~ ~~dead in~~ ^{night,} ~~their beds;~~ are generally found upon their backs in the morning. —

4 When sleep is required, or indulged in during the day, it ^{will} ~~should~~ be best to take it in a sitting posture with the neck as erect as possible, and the ~~feet~~ lower limbs placed horizontally upon a chair. This will prevent the swelling of the feet. If a recumbent posture be preferred for a nap during the day, all the ligatures upon the body should be ^{first} ~~loosed~~ ^{unloosed}. ~~before~~ ~~unless~~ ~~this~~ ~~sleep~~ ~~is~~ ~~than~~ ~~the~~ ~~body~~ ~~be~~ ~~from~~ ~~its~~ ~~unless~~ ~~this~~ ~~be~~ ~~done,~~ Sleep will be uneasy, and followed



not refreshing. The persons who arrive
- many hurry into our woods, ^{and who} for a
while ~~refuse to take off their cloaths~~ ^{lie down in their} ~~are~~
when they sleep in the open air, but
perchance for the truth of this fact, ^{for which}
~~the want of food and refreshing sleep~~
reason they are now obliged to
~~use to compel them to be forced to~~
~~the practice of~~ take off their cloaths
to ~~sleep~~ ^{lie} in their blankets as they do
in their beds. This sleep then becomes
easy and ~~reviving~~ ^{restores the strength}
and activity of their bodies. - ~~the~~ ^{sleep in}
horizontal posture of the body in ~~sleep~~
should be avoided for several hours
After a full meal whether it ^{be} a
Dinner or a supper.

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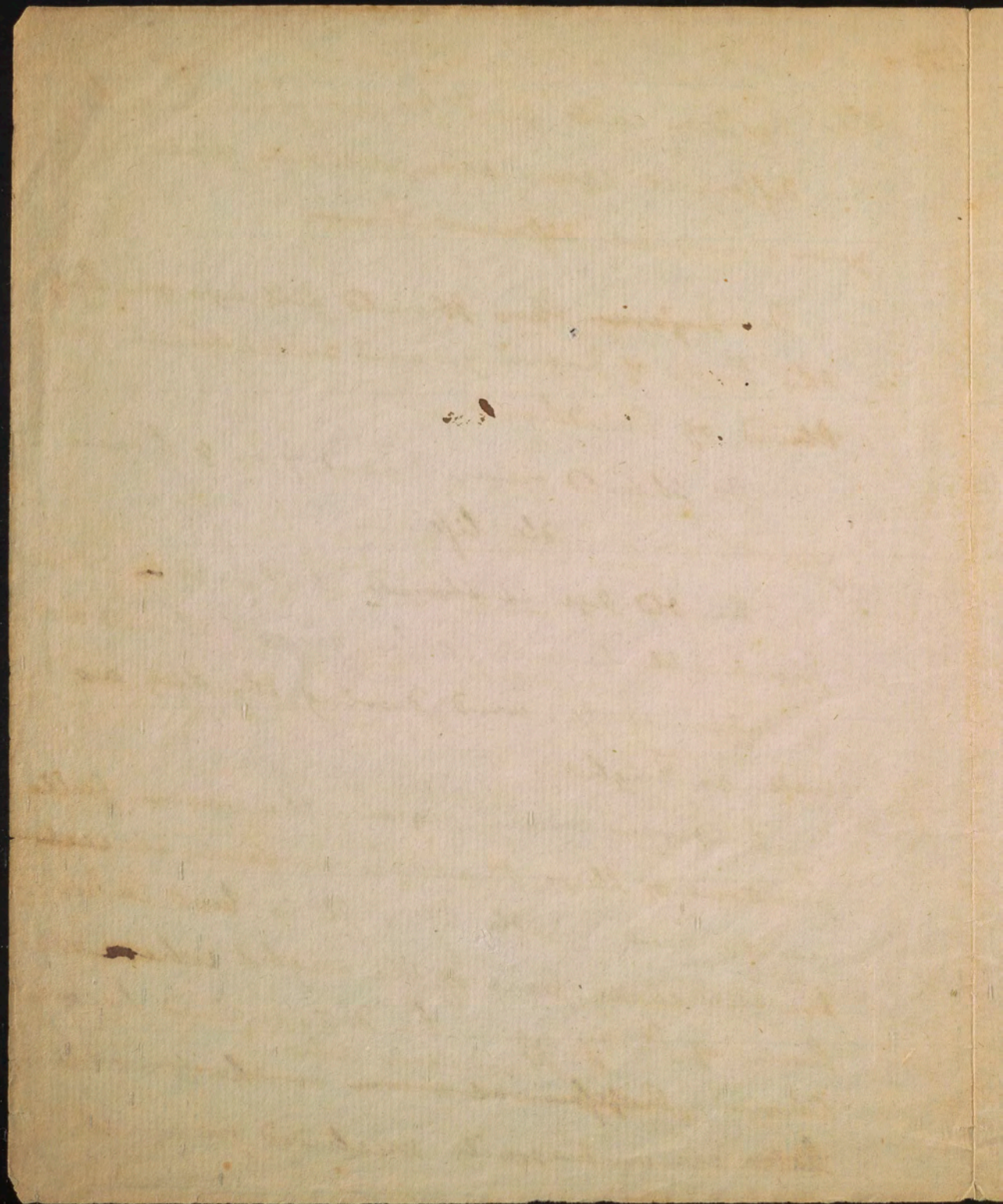
The System calls for different portions of Sleep in different ages, occupations & seasons of the year: ~~and at different times.~~

In ~~Infancy~~ Sleep should fill up one half the time of Infancy, and more than a third of Childhood.

It should never exceed 7 or 8 hours in Youth or middle life. —

In old age it ~~should~~ it should, be when practicable, be much longer. It should be taken early, and during the day as well as ^{during the} night.

Studious men require the ~~same~~ full portions of Sleep that are necessary in early youth and middle life. It is best taken in the early part of the night when the hours of Study can be determined by our Choice. ^{Physicians who} ~~Professional men in the United States~~ are unhappily precluded from this



conformity of their systems to nature, but
~~they~~ suffer less ^{by} ~~from~~ neglecting it from
the ~~constant~~ constant exercise of their
bodies during the day.

Labourers of all kinds require seven
or eight hours sleep. —

~~During the day~~ In consequence of the
greater expenditure of the strength of the
body by the more ^{violent} active labors, or
more active exercises of winter, and
by the labors and heat of summer,
more sleep is necessary in those seasons
than in the spring and autumnal
months. —

